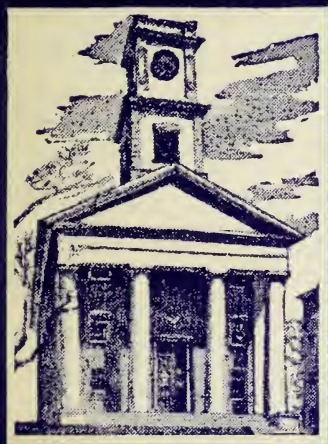


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NUMBER 1
OCTOBER 1961

Amherst College Bulletin



CATALOG 1961—1962



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Amherst College Bulletin



CATALOG 1961-1962

VOLUME 51 OCTOBER 1961 NUMBER 1

This is Amherst, an illustrated booklet describing life at Amherst College, and *Costs and Financial Aid at Amherst* are available on request from the Dean of Admission.

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NUMBER 1

Contents

CALENDAR	4
COLLEGE CALENDAR	5
THE CORPORATION	6
OFFICERS OF ADMINISTRATION	8
FACULTY	9
AMHERST COLLEGE	18
THE FOLGER SHAKESPEARE LIBRARY	22
THE MERRILL CENTER FOR ECONOMICS	23
DOSHISHA UNIVERSITY	23
I. GENERAL INFORMATION	25
Admission	27
Regulations	31
Tuition and Fees	35
Scholarships and Beneficiary Aid	37
Degree Requirements	40
Faculty Statement on Intellectual Responsibility	46
II. COURSES OF INSTRUCTION	49
Course Descriptions by Departments	51
III. LECTURESHIPS, HONORS, FELLOWSHIPS, PRIZES AND AWARDS	131
Lectureships	133
Honors	134
Fellowships	137
Prizes and Awards	143
Degrees Conferred, 1960 and 1961	155
IV. ENROLLMENT	163
V. THE ALUMNI ASSOCIATIONS	187
VI. APPENDIX	199
INDEX	205

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100

College Calendar

1961

Sept. 22	<i>Friday</i>	Beginning of Freshman Orientation
Sept. 24	<i>Sunday</i>	Opening College Convocation
Sept. 25	<i>Monday</i>	Beginning of Classes
Oct. 28	<i>Saturday</i> (a holiday)	Wesleyan Football Game
Nov. 18	<i>Saturday</i> (a holiday)	Williams Football Game at Williams-town
Nov. 22	<i>Wednesday</i>	Beginning of Thanksgiving Recess
Nov. 27	<i>Monday</i>	End of Thanksgiving Recess
Dec. 16	<i>Saturday</i>	Beginning of Christmas Recess

1962

Jan. 3	<i>Wednesday</i>	End of Christmas Recess
Jan. 22	<i>Monday</i>	First Semester Examination Period
	through	
Jan. 27	<i>Saturday</i>	
Feb. 1	<i>Thursday</i>	Beginning of Second Semester
Mar. 21	<i>Wednesday</i>	End of Classes before Spring Recess
Mar. 24	<i>Saturday</i>	End of Fraternity Rushing Period
Apr. 9	<i>Monday</i>	End of Spring Recess
May 12	<i>Saturday</i>	Dance Holiday
June 4	<i>Monday</i>	Second Semester Examination Period
	through	
June 9	<i>Saturday</i>	
June 17	<i>Sunday</i>	Commencement
Sept. 23	<i>Sunday</i> , 2:00 p.m.	Opening College Convocation
Sept. 24	<i>Monday</i> , 8:00 a.m.	Beginning of Classes
Oct. 13	<i>Saturday</i>	Parents Day
Oct. 17	<i>Saturday</i> (a holiday)	Wesleyan Football Game at Middletown
Nov. 17	<i>Saturday</i> (a holiday)	Williams Football Game
Nov. 21	<i>Wednesday</i> , 12:50 p.m.	Beginning of Thanksgiving Recess
Nov. 26	<i>Monday</i> , 8:00 a.m.	End of Thanksgiving Recess
Dec. 15	<i>Saturday</i> , 11:50 a.m.	Beginning of Christmas Recess

1963

Jan. 2	<i>Wednesday</i> , 8:00 a.m.	End of Christmas Recess
Jan. 21	<i>Monday</i>	First Semester Examination Period
	through	
Jan. 26	<i>Saturday</i>	
Jan. 31	<i>Thursday</i> , 8:00 a.m.	Beginning of Second Semester
Mar. 20	<i>Wednesday</i> , 5:00 p.m.	End of Classes before Spring Recess
Mar. 23	<i>Saturday</i>	End of Fraternity Rushing Period
Apr. 8	<i>Monday</i> , 8:00 a.m.	End of Spring Recess
Mar. 11	<i>Saturday</i> (a holiday)	Dance Holiday
June 3	<i>Monday</i>	Second Semester Examination Period
	through	
June 8	<i>Saturday</i>	
June 16	<i>Sunday</i>	Commencement

The calendar for the academic year 1962-63 is subject to change

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Amherst, Mass.

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Boston, Mass.

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LEWIS WILLIAMS DOUGLAS, LL.D.

Phoenix, Ariz.

ARTHUR FAIRBANKS ELLS, LL.D.

Litchfield, Conn.

* The terms of the Alumni Trustees expire as follows: STANLEY FERDINAND TEELE, 1963; JESSE McLANE TROTTER, 1964; JOHN ANTHONY HILL, 1965; FREDERIC MURRAY HADLEY, 1966; ALFRED FRIENDLY, 1967.

†A life trustee who resigns shall be eligible for election by the Board of Trustees as trustee emeritus if in the opinion of the Board of Trustees he shall have rendered outstanding service to the College during his trusteeship. A trustee emeritus shall have all the privileges of a member of the Board, including the privilege of serving on standing committees, but shall not vote at the meetings of the Board. The trustees emeriti shall retain the processional order which they held at the time of their retirement. (Adopted by the Board of Trustees of Amherst College, January 17, 1943 and amended Oct. 17, 1953.)

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Merrill Center for Economics Committee: Messrs. COOMBS, FULLER,† PLIMPTON, SELIGMAN, SMITH (Chairman),† TEELE.

Compensation Committee: Messrs. COOMBS (Chairman), HADLEY, HILL, KINGMAN, PLIMPTON, SELIGMAN, SMITH,† TEELE, WEATHERS.

* The committee listings are for 1960-61. The Corporation organizes itself at its annual fall meeting.

† Deceased.

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<i>Assistant Secretary of the College and Director of Publications</i>	
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<i>Chairman of the Department of Physical Education and Athletics</i>	
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Professor of Astronomy, Emeritus

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Professor of French, Emeritus

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Samuel Williston Professor of English

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HENRY THOMAS YOST, JR., PH.D.	<i>Associate Professor of Biology</i>
JAMES HEYWOOD ALEXANDER, M.A.	<i>Assistant Professor of Music</i>
LINCOLN PIERSON BROWER, PH.D.	<i>Assistant Professor of Biology</i>
JOHN ARTHUR CAMERON, M.A.	<i>Assistant Professor of English</i>
WILLIAM CALVIN CANNON, PH.D.	<i>Assistant Professor of Spanish</i>
* OTIS CARY, M.A.	<i>Assistant Professor on leave for service at Doshisha University</i>
JAMES BUCKLEY CROWLEY, PH.D.	<i>Assistant Professor of History</i>
PETER CZAP, JR., PH.D.	<i>Assistant Professor of History</i>
JOHN WARNER DAVENPORT, PH.D.	<i>Assistant Professor of Psychology</i>
COLBY WILSON DEMPSEY, PH.D.	<i>Assistant Professor of Physics</i>

* On leave 1961-62. ‡ On leave second semester.

JOHN CUSHING ESTY, JR., M.A.	<i>Lecturer in Mathematics and Associate Dean</i>
JOEL ETHAN GORDON, PH.D.	<i>Assistant Professor of Physics</i>
CORTLAND VAN RENSSELAER HALSEY, PH.D.	
	<i>Assistant Professor of American Studies and Assistant Dean of Admission</i>
* HUGH DODGE HAWKINS, PH.D.	<i>Assistant Professor of American Studies</i>
WILLIAM WEBSTER HEATH, PH.D.	<i>Assistant Professor of English</i>
GEORGE ANTHONY KATEB, PH.D.	<i>Assistant Professor of Political Science</i>
ROBERT HARRY KOCH, PH.D.	<i>Assistant Professor of Astronomy</i>
HEINZ KÖHLER, M.A.	<i>Assistant Professor of Economics</i>
ALLEN KROPF, PH.D.	<i>Assistant Professor of Chemistry</i>
COOPER HAROLD LANGFORD, 3RD, PH.D.	<i>Assistant Professor of Chemistry</i>
EDWARD RENTON LEADBETTER, PH.D.	<i>Assistant Professor of Biology</i>
HAROLD GEORGE LOOMIS, PH.D.	<i>Assistant Professor of Mathematics</i>
DONALD GRANT MILLER, M.ED.	<i>Assistant Professor of Physical Education</i>
EDWARD OLSON, B.S.	<i>Visiting Assistant Professor of Astronomy</i>
JOHN ANTHONY PETROPULOS, A.B.	<i>Assistant Professor of History</i>
WILLIAM HARRISON PRITCHARD, PH.D.	<i>Assistant Professor of English</i>
ANTHONY RESO, PH.D.	<i>Assistant Professor of Geology</i>
LORENZO WILLARD RICHARDS, PH.D.	<i>Assistant Professor of Chemistry</i>
BURTON RUBIN, M.A.	<i>Assistant Professor of Russian</i>
ROGER HILLER SALE, PH.D.	<i>Assistant Professor of English</i>
DWIGHT MORROW SCANDRETT, JR., M.S.	
	<i>Assistant Professor of Physical Education</i>
EDWARD JOSEPH SERUES, B.S.	<i>Assistant Professor of Physical Education</i>
PAUL HAROLD SETON, M.D.	<i>Assistant College Physician</i>
* MARC STAMM SILVER, PH.D.	<i>Assistant Professor of Chemistry</i>
DONALD OWEN WHITE, M.A.	<i>Assistant Professor of German</i>
RONALD ROYCE ALLEN, PH.D.	<i>Instructor in Public Speaking</i>
KAITH EMERSON BALLARD, PH.D.	<i>Instructor in Philosophy</i>
JAMES JOHN BARNES, PH.D.	<i>Instructor in History</i>
WILLIAM ELIOT COLES, JR., M.A.	<i>Instructor in English</i>
JOHN CHARLTON CRAWFORD, PH.D.	<i>Instructor in Music</i>
DAVID KNIGHT CROWNE, M.A.	<i>Instructor in English</i>
ALAN DAVIS, B.A.	<i>Instructor in Russian</i>
EDWIN FRANCIS DOLIN, JR., M.A.	<i>Instructor in the Classics</i>
RUSSELL F. DOOLITTLE, M.A.	<i>Instructor in Biology</i>
JOHN GARVER GAGLIARDO, M.A.	<i>Instructor in History</i>
ALLEN GUTTMANN, PH.D.	<i>Instructor in English</i>
HERBERT JOSEPHS, M.A.	<i>Instructor in French</i>
JOHN KING-FARLOW, PH.D.	<i>Instructor in Philosophy</i>
HERMAN IRVIN KLEINBERG, M.A.	<i>Instructor in Economics</i>
ANTHONY JOHN MARSHALL, B.A.	<i>Instructor in the Classics</i>
FRED HERBERT NICKLASON, M.A.	<i>Instructor in American Studies</i>
DAVID REPASS, B.A.	<i>Instructor in Political Science</i>
PETER SCHIRAG, B.A.	<i>Instructor in American Studies</i>

* On leave 1961-62.

PETER SERENYI, M.A.

ALFRED ROSCOE SUGG, JR., M.A.

RICHARD G. VAN PETERSILGE

Instructor in Fine Arts

Instructor in Dramatic Arts

Instructor in Physical Education

Associate

PHILIP TRUMAN IVES, PH.D.

Research Associate in Biology

Assistants

KATE D. BREUSCH

ALDA B. CANNON

CHARLES T. GANZER

VALVERIAN F. KOLESOFF

German

Romance Languages

Dramatic Arts

Russian

Faculty Committees

Committee of Six: President PLIMPTON (Chairman, *ex officio*), Dean PORTER (Secretary, *ex officio*), Professors ARONS, BIRNEY, COLLERY, FUNNELL, TOWNE, and ZIEGLER.

Committee on Educational Policy: Professors DEMOTT, EPSTEIN, FRENCH, ROZWENC, and WILLCOX.

Fellowship Committee: President PLIMPTON (Chairman), Dean PORTER (Secretary), Professors BAIRD, GREENE, KATEB, and WHITNEY.

Committee on Admission and Scholarships: President PLIMPTON (Chairman), Dean WILSON (Secretary), Dean SWARTZBAUGH, Dean ESTY, Dean HALSEY, Dean PORTER, and Professors BIRNEY and GROSE.

Committee on Intercollegiate Athletics: President PLIMPTON (Chairman), Dean PORTER (Secretary), Professors BROPHY, ECKLEY, LUMLEY, NELSON, RICHARDSON, WILLCOX, and WILSON.

Lecture Committee: Professors YOST (Chairman), COLLERY and PRITCHARD.

Library Committee: Professors McKEON (Chairman), BAIRD, BENSON, DOUGLAS, KROPF, PEMBERTON and SCENNA.

- BERT WALTER REIN '61 Harvard University
John Woodruff Simpson Fellow in Law
- ROBERT SIMON ROSENGARD '61 Cornell University
Amherst Memorial Fellow in English Literature
(In preparation for college teaching)
- WILLIAM WELLINGTON SLIGHTS '61 Cornell University
Amherst Memorial Fellow in English
(In preparation for college teaching)
- MARK LAWRENCE STIGLITZ '61 Harvard University
John Woodruff Simpson Fellow in Medicine
- PHILIP KING THATCHER '61 Divinity School of the Pacific
John Woodruff Simpson Fellow in Theology
- ARTHUR RUMFORD THOMPSON '61 University of Washington
John Woodruff Simpson Fellow in Medicine
- ROBERT SHARPE THOMPSON '61 The Johns Hopkins University
John Woodruff Simpson Fellow in Medicine
- JOSEPH SAMUEL TULCHIN '59 Harvard University
Henry P. Field Fellow in History
- PIETER CORNELIUS VAN DEN TOORN '60 Harvard University
Edward Poole Lay Fellow in Music
- FRED LEWIS WALLACE '61 Harvard University
John Woodruff Simpson Fellow in Law
- FREDERICK EDWIN WHYTE '61 Claremont Graduate School
Amherst Memorial Fellow in History
(In preparation for secondary school teaching)
- GEORGE CROSIER WHITNEY, III '61 Cornell University
Forris Jewett Moore Fellow in Organic Chemistry
- DONALD FERGUSON WINTER '54 Harvard University
Rufus B. Kellogg University Fellow in Applied Mathematics
- RICHARD STANLEY WIRTZ '61 Princeton University
Amherst Memorial Fellow in Public and International Affairs
- RALPH AUBREY YOUNG '61 University of California, Los Angeles
Forris Jewett Moore Fellow in History (African Affairs)

Amherst College Library

NEWTON FELCH McKEON, JR., B.A.

Director

EBENEZER PORTER DICKINSON

Reference Librarian

RUTH MARIE ERIT, B.A.

Order Librarian

GLADYS JONES MACK, B.A., B.L.S.

Head of Circulation

CYNTHIA FURNEAUX TUCKER, B.S.

Chief Cataloguer

FLOYD SAMUEL MERRITT, M.A.

Assistant Reference Librarian

Mead Art Building

CHARLES HILL MORGAN, PH.D.

Director

CHARLES ENSIGN ROGERS, M.A.

Assistant Director

MARGARET CECILIA TOOLE, B.A.

Assistant Curator of Painting

ADVISORY COMMITTEE ON ACQUISITIONS

LOUISA DRESSER, B.A.

Worcester, Mass.

Curator, Worcester Art Museum

ARTHUR WILLIAM HEINTZELMAN

Marblehead, Mass.

Curator of Prints, Boston Public Library

ROBERT G. MCINTYRE

Dorset, Vermont

Retired Director, MacBeth Gallery, New York

CHARLES HILL MORGAN, PH.D., L.H.D.

Amherst, Mass.

Professor of Fine Arts on the William R. Mead Foundation

DANIEL COTTON RICH, PH.D.

Worcester, Mass.

Director, Worcester Art Museum

CHARLES HENRY SAWYER, M.A., L.H.D.

Ann Arbor, Michigan

Professor of Fine Arts, University of Michigan

CALVIN HASTINGS PLIMPTON, M.D., LL.D.

Amherst, Mass.

President of the College, ex officio

Kirby Memorial Theater

WALTER LEROY BOUGHTON, M.F.A.

Director

CHARLES ENSIGN ROGERS, M.A.

Designer

RALPH CLELAND MCGOUN, JR., M.A.

Technical Director

The Pratt Museum of Geology

GEORGE WILLIAM BAIN, PH.D.

Curator

ALBERT ELMER WOOD, PH.D.

Associate Curator

GERALD PATRICK BROPHY, PH.D.

Associate Curator

ANTHONY RESO, PH.D.

Associate Curator

Edward Hitchcock Memorial Room

RENA MARY DURKAN

Curator

Amherst College Wildlife Sanctuary

WALTER CHARLES MARKERT, B.S.

Director

Mabel Loomis Todd Forest

LINCOLN PIERSON BROWER, PH.D.

Curator

Snell Museum of Physics

THEODORE SOLLER, PH.D.

Director

Religious Advisers

REV. JAMES CLARK, B.D.

Advisor on Religious Activities

REV. THAYER AINSWORTH GREENE, B.D.

Advisor on Religious Activities

REV. DAVID J. POWER

Religious Advisor to Catholic Students

REV. J. JOSEPH QUIGLEY

Religious Advisor to Catholic Students

RABBI LOUIS RUCHAMES, PH.D.

Religious Advisor to Jewish Students

Advisor on Charitable Fund Awards

FRANK LEAROYD BOYDEN, SC.D., PD.D., LITT.D., L.H.D., LL.D.

Amherst College

Since its beginning in 1821, Amherst has been an independent liberal arts college. Its founders dedicated the College to "the education of indigent young men of piety and talents for the Christian ministry," but Amherst was never associated formally with any church or sect. Its charter, granted by the Commonwealth of Massachusetts in 1825, simply commits the College to "the education of youth" and bars tests of religion in choosing students or faculty.

As a men's liberal arts college offering only the undergraduate bachelor of arts degree, Amherst is dedicated to general education in the humanities, the natural sciences, and the social sciences. Its curriculum, originally based on classical standards, has never been vocational in nature. It now attempts to combine a broad comprehensive education with the study of some field in depth. Amherst urges participation and apprenticeship for its students in all areas—academic, athletic, and extra-curricular—with the general intent of encouraging each individual to use his own skills, to develop new ones, and to make active use of his knowledge. Premised on the idea that, in the long run, man can only be given the chance to educate himself, Amherst's program is a series of challenges which demand serious effort on the part of each student.

The goal of a liberal arts program like Amherst's is to awaken in each student a love and respect for learning. Since many young men graduating from college today will probably enter areas of endeavor which have not yet even been discovered, Amherst tries to make its students familiar with a variety of disciplines and able to deal with problems in a broad spectrum of fields. Such studies should prepare each man to understand areas other than his own; they should enable the future scientist to communicate with the humanist, the humanist with the scientist. Thus the first two years of the Amherst program are devoted to an introduction to the major disciplines. Certain specific courses are required of all freshmen and sophomores. Among these are mathematics, physics, history, humanities, and English composition in the freshman year, and an additional year of another science and American Studies for sophomores. These courses are taught not to survey the subjects covered, but to make the student aware of the methods and problems associated with a particular field. Ideally he should learn how an historian or a scientist thinks. A few students are granted advanced placement on entrance, but since the faculty of the College believes in a common educational experience for all freshmen and sophomores, students in each of the first two years generally find themselves working on the same problems and assignments at the same time. Thus education is not confined to the classroom but continues in dormitories and at the dinner table.

As undergraduates become upperclassmen they choose a field for their major subject. They continue, however, to elect a certain number of courses outside their major field. About half of Amherst's seniors engage

in honors work which includes independent research, often at the frontiers of knowledge, and the preparation of a learned thesis. Many students also engage in other independent work—always under the general direction of a faculty member—either as part of their regular courses or under Amherst's program of independent reading, described in course offerings on page 51.

The College's faculty, drawn from many specialties and representing a great diversity of backgrounds and interests, is engaged in two primary activities: first, the education of undergraduates and, second, research and writing. Amherst's classes run from large lectures of two hundred or more to small groups of less than five students. About 80 per cent of the classes and sections have 25 students or less. Faculty members are easily accessible to undergraduates. Most of them, however, are not engaged in feeding data to the student, but in demonstrating methods, in asking questions, in preparing him to educate himself not only in college but also during the many years thereafter.

Founded by men like Noah Webster and Samuel Fowler Dickinson, grandfather of the poet Emily, Amherst received its initial support from many citizens of the town from which it takes its name. It has had a long association with the surrounding community, particularly with such poets and writers as Emily Dickinson, Helen Hunt Jackson, David Grayson, and Robert Frost. But the College is also associated with universal traditions of scholarship and learning. Its faculty holds degrees from institutions of higher learning all over the world and its students come from all parts of the United States and many foreign countries. Among Amherst's alumni are a former president of the United States, a chief justice of the Supreme Court, cabinet officers, ambassadors, businessmen, teachers, scientists, poets, and many less distinguished citizens who have contributed to their communities and professions in significant but unheralded ways.

The Amherst campus is located on a hill just south of the town common; campus and common run together and are hard to distinguish at first glance. The surrounding area is characterized by apple orchards and tobacco farms lying on the flat land of the Connecticut Valley and by ranges of hills to the south and east. Within a short walk are wooded hills, trails, and by-roads whose names date from another age in the life of New England; Rattlesnake Road, Juggler Meadow Road, the Orient. A short drive takes one to Deerfield and Bloody Brook, Pelham and Daniel Shays Highway, Northampton and Jonathan Edwards. A few miles away are three other institutions of higher learning: Smith and Mount Holyoke Colleges and the University of Massachusetts with whom Amherst engages in a number of cooperative education ventures. These are described on pages 42 and 45.

With an endowment of some \$40,000,000, the College is equipped with a library of over 330,000 volumes, science laboratories, theater, gymnasium, swimming pool, and playing fields, squash and tennis courts, a museum of fine arts, a central dining commons where all students eat, dormitories, and

classroom buildings. Amherst has a wildlife sanctuary and a forest for the study of natural life, an observatory and planetarium, and equipment for studies in low temperature physics. It offers the student a chance to conduct research with a source of radioactive cobalt or to work in a modern experimental psychology laboratory equipped with closed circuit television and automatic measuring devices; the student has access to a large selection of American paintings in the College's art collection; he studies foreign languages with native speakers and in a modern language laboratory. During the course of each year he can hear such visitors as Robert Frost, Linus Pauling, Pierre Mendes-France, and Aaron Copeland. From time to time he can chat personally with visiting lecturers. The College also offers him several formal concerts each year and the opportunity for individual instrumental instruction. There is an active program of theatrical productions, schedules of foreign films, debates, and many other events, both at Amherst and at the neighboring institutions.

In extra-curricular activities the student has many chances to use his skills and follow his interests and to develop new skills. Amherst has a full program of intercollegiate athletics in most sports. Every freshman and sophomore is required to take part in a program of physical education designed to improve his fitness and to allow him to participate in team and recreational sports. In addition, about 90 percent of the students participate in an organized program of intramural sports. Amherst undergraduates also maintain a variety of non-athletic extra-curricular activities; a newspaper, yearbook, literary magazine, FM radio station, band, glee club and other smaller singing groups, a symphony orchestra (in conjunction with Smith College), a dramatic organization, and specialized clubs for those interested in such varied things as hiking, debating, medicine, law, or the discussion of current issues. The Christian Association and other religious groups, working independently or through the College chaplains and religious advisors, maintain a program of worship services, Bible study, community service projects and other activities.

Most Amherst undergraduates join one of the thirteen social fraternities at the end of their freshman year. These organizations provide housing for many of their members and are the focus of social life for upperclassmen. Freshmen live together in the same dormitories and maintain their own social activities. Since 1946 Amherst fraternities have been required to choose members without consideration of race or religion, and since 1951 every Amherst student who has wanted to join a fraternity has had the opportunity to do so.

The College's deans, medical staff, student counselor, chaplains, and faculty advisors are prepared to give each undergraduate whatever assistance he requires. When possible, however, the undergraduate is encouraged to seek solutions to his own problems. Nevertheless, Amherst undergraduates generally find most members of the faculty and administration easily accessible, either at their offices, after class, or simply in passing on the campus.

All Amherst undergraduates subscribe to an honor code which makes them responsible for the intellectual honesty of their work. This is described elsewhere in this Catalog.

Amherst now has an enrollment of 1,000 but plans to grow to 1,200 in the next few years. The College also expects to construct a new music building, new dormitories, a new library, and other facilities to make its opportunities as ample as it possibly can.

Amherst, however, will remain small enough to maintain its sense of community, to give each individual a feeling of membership and involvement. A college is, finally, a community of scholars and learners and it is to this ideal that Amherst is essentially committed.

PRESIDENTS OF AMHERST COLLEGE

REV. ZEPHANIAH SWIFT MOORE, D.D.....	1821-1823
REV. HEMAN HUMPHREY, D.D.....	1823-1845
REV. EDWARD HITCHCOCK, D.D., LL.D.....	1854-1854
REV. WILLIAM AUGUSTUS STEARNS, D.D., LL.D.....	1854-1876
REV. JULIUS HAWLEY SEELYE, D.D., LL.D.....	1876-1890
MERRILL EDWARDS GATES, PH.D., LL.D., L.H.D.....	1890-1899
REV. GEORGE HARRIS, D.D., LL.D.....	1899-1912
ALEXANDER MEIKLEJOHN, PH.D., LL.D.....	1912-1924
GEORGE DANIEL OLDS, LL.D.....	1924-1927
ARTHUR STANLEY PEASE, PH.D., LL.D.....	1927-1932
STANLEY KING, LL.D.....	1932-1946
CHARLES WOOLSEY COLE, PH.D., L.H.D., SC.D., LITT.D., LL.D....	1946-1960
CALVIN HASTINGS PLIMPTON, M.D., M.A., D.M.S., LL.D.....	1960-

FOUR COLLEGE COOPERATION

Amherst, Mount Holyoke and Smith Colleges and the University of Massachusetts have combined their activities in certain areas to extend and enrich their educational resources and have worked out procedures for such cooperation. Any student in any of the four institutions may take courses for credit in any of the other three if he has the qualifications. (See page 45). Catalogues of courses at the other institutions are at the loan desk of each library and in the offices of department chairmen.

The oldest cooperative venture is the Hampshire Inter-Library Center (HILC) located now in the Goodell Library at the University. HILC, a separate legal entity, is a depository for research materials and learned journals which are beyond the reach of any of the four libraries operating independently. An FM radio station (WFCR, 88.5 mc.) is run cooperatively through the Western Massachusetts Broadcasting Council composed of representatives of the four institutions. Other cooperative activities include a joint Astronomy Department; courses in the History of Science and in Non-Western studies; a Ph.D. program; a Film Center; a common calendar of events; a committee on transportation and a Coordinator for cooperative projects.

The Folger Shakespeare Library

By the will of the late Henry Clay Folger of the Class of 1879, there was bequeathed to the Trustees of Amherst College the Folger Shakespeare Library in Washington, D. C., together with an endowment for maintenance, later increased by the generosity of Mrs. Folger.

The building, located on East Capitol Street directly east of the Library of Congress, was erected at a cost of more than \$2,000,000. Its endowment now stands at about \$10,000,000, and its collections are valued at about \$3,200,000. On the Library's main floor are: an Exhibition Gallery with displays of rare books, manuscripts, paintings, and miscellaneous curios and works of art; an Auditorium in the form of a reproduction of the interior of an Elizabethan playhouse; a large Reading Room, representing a Tudor Banqueting Hall and hung with early tapestries; four Vaults, containing the rarest portions of the collections; a Reception Room for social purposes; and Administration Offices. On the second floor are the working rooms of the Library's Accessions Department, the Catalogue Department, and offices for members of the staff. A Photographic Department is in the basement. Reading machines for microfilm are found in the stacks.

The Library concentrated its original collection largely upon the life, writings, and influence of William Shakespeare, but during the past two decades it has increased its rare books and manuscripts in related fields until today it has one of the largest collections in the world for the study of British history of the sixteenth and seventeenth centuries. Only the British Museum has a larger collection of early English books.

Under the plan of the Trustees of the College, in addition to maintaining its traditional interest in Shakespeare and English Renaissance literature, the Library is exploiting other fields as well. Efforts are made to expand it as an efficient laboratory of research and investigation. Aid and encouragement are given literary and historical scholars capable of making the most significant use of the Library's great collection of source materials. The Library has also developed reference collections which scholars require for the efficient utilization of rare books and manuscripts.

Research facilities of the Library are not open to casual visitors, but permission to use them may be obtained by qualified scholars upon application to the Director. Interested individuals and groups are cordially invited to visit the FOLGER's Exhibition Gallery.

FOLGER LIBRARY OFFICERS

LOUIS BOOKER WRIGHT, PH.D., LITT.D., L.H.D., LL.D.

Director

JAMES GILMER McMANAWAY, PH.D. *Consultant in Literature and Bibliography*

GILES EDWIN DAWSON, PH.D.

Curator of Books and Manuscripts

PHILIP A. KNACHEL, M.S.L.S., PH.D.

Assistant Director

ELEANOR PITCHER

Assistant to the Director

VIRGINIA A. LAMAR
LILLY C. STONE, B.A.
DOROTHY E. MASON, B.A., M.A.
ELAINE FOWLER, B.A.

Executive Secretary
Chief Cataloguer
Reference Librarian
Reading Room Supervisor

The Merrill Center for Economics

The Merrill Center for Economics is located at The Orchard, Southampton, New York. The Orchard was presented to Amherst College in 1951 by Charles E. Merrill, an alumnus of the Class of 1908. Each summer, the Center brings together several groups of experts in the field of economics to discuss some important economic problem. They live together at The Orchard and meet regularly around a conference table and, in addition, have less formal discussions in smaller groups. Attendance is by invitation only, and the conferees are drawn from education, business, and government, both from this country and abroad. Additional speakers are invited to discuss particular problems with the group.

The Orchard consists of a beautiful, spacious house and several additional buildings on its sixteen acres. The main house is particularly noted for its paneled music room and main staircase. Together with the Annex, it can comfortably house about thirty persons. The houses are surrounded by extensive lawns and formal gardens. The library contains current economic periodicals and is supplemented each summer as necessary with books from the Amherst College Library.

The Merrill Center is administered by the Trustees of Amherst College. Dr. Willard L. Thorp, an alumnus of Amherst in the Class of 1920 and former Assistant Secretary of State for Economic Affairs, is director of the Center. Dr. Thorp is also Professor of Economics on the Amherst faculty.

Doshisha University

Doshisha University in Kyoto, Japan, was founded by Joseph Hardy Neesima, of the Class of 1870, the first Japanese to graduate from a western college or university. Amherst has maintained a continuing and close relationship with Doshisha. More than twenty Amherst graduates have taught there and since 1922 Amherst has maintained a resident instructor at the Japanese University. Amherst House, a New England Georgian style residence, was built on the Doshisha campus as a memorial to Neesima. It serves as the residence of the Amherst representative, houses some twenty Doshisha students, and serves as a center for cultural exchange between students and faculty from East and West.

I

Admission

Regulations

Tuition and Fees

Financial Aid

Degree Requirements

Admission

GENERAL STATEMENT

Admission to Amherst College is competitive. The College attempts to select those applicants who seem qualified to benefit from the educational opportunities offered. The Committee on Admission, in judging the qualifications of applicants, pays particular attention to (1) academic performance in high school or independent school; (2) results of the College Entrance Examination Board scholastic aptitude and achievement tests; (3) the recommendation of the high school principal or headmaster; (4) evidence of industry and resolution; (5) the character, health, and extracurricular interests and achievements of the applicant. All freshmen admitted are candidates for the Bachelor of Arts degree.

HOW AND WHEN TO APPLY FOR ADMISSION

Correspondence regarding admission to the freshman class should be addressed to the Dean of Admission, Amherst College, Amherst, Massachusetts.

An applicant for admission to the freshman class must file a formal application with the Dean of Admission before March 1 of the year in which he expects to be admitted. Applicants for financial aid must file their applications before February 1. Under certain circumstances, later applications will be considered. The formal application should be accompanied by a check or money order for \$10 made payable to *The Trustees of Amherst College*. This application fee will not be refunded if the student withdraws his application or if his application is not acted upon favorably.

A preliminary application may be filed at any time prior to the applicant's senior year. Once this preliminary application has been filed and acknowledged, the College assumes the responsibility of forwarding all formal application forms at the proper time. No priority is given to early applications.

Entering students are admitted only at the beginning of the regular college year in September.

Scholarship applicants should refer to pages 37-39.

INTERVIEW HOURS

The Admission Office is open weekdays from 8:30 a.m. until 12:00 noon and 1:30 p.m. until 4:00 p.m. and on Saturdays from 8:30 a.m. until 12:00 noon, but through the summer months and until Labor Day, the Admission Office (and all administrative offices) will be closed on Saturdays. Where possible, applicants for admission are advised to visit the College and discuss their educational plans with an admission officer. Interviews are not required, however. *It is advisable to write for an appointment with an admission officer if you plan to visit the College.*

RECOMMENDED PREPARATION

The following minimum program of studies is recommended for students planning to enter Amherst College:

English	4 years
Mathematics	3 years
Foreign Language	2 years (3 or 4 years of one preferred)
History	1 year
Laboratory Science	1 year

It should be noted that the College stresses sound preparation in certain subjects which are important implements for the many branches of college work. English, mathematics (intermediate mathematics, emphasizing basic algebraic, geometric, and trigonometric concepts and deductive reasoning), and foreign language (ancient or modern or both) are the subjects in which entering students should show proficiency.

For graduation Amherst College requires competence (oral and written) in a foreign language, ancient or modern. For definition of competence see page 41. The phrase "satisfactory score" means 575 in the College Entrance Examination Board achievement tests.

In selecting a class, some preference is given to candidates who present the following programs in foreign language in the following order:

First preference—four years of one language;

Second preference—three years of one language;

Third Preference—two years each of two languages.

Candidates who apply from secondary schools which offer little or no language instruction will be judged by their other intellectual aptitudes and achievements and their readiness for the Amherst curriculum. Amherst College recommends, where possible, that a student continue to study the language he begins in secondary school through completion of the college requirement.

Students with particular interests may wish to modify the suggested program by taking more work in certain subjects and less in others. Such modification is wholly acceptable, provided there is evidence of adequate preparation in the basic fields of English, mathematics, and foreign language. Any deviation should be discussed in advance with the Dean of Admission.

ADVANCED PLACEMENT

In certain subjects, candidates who have completed advanced work in secondary schools may apply for advanced placement at Amherst. Each case will be considered individually on its own merits. Candidates interested in Advanced Placement are urged to take the Advanced Placement Tests given by the College Entrance Examination Board. Questions about Advanced Placement should be directed to the *Dean of Admission*. For

further information candidates should consult the Advanced Placement booklet in their secondary school guidance office.

COLLEGE BOARD TESTS

All applicants for admission are required to take the scholastic aptitude tests, two achievement tests, and the writing sample test given by the College Entrance Examination Board. The aptitude and writing sample tests may be taken in December or January and the achievement tests in December, January, or March of the senior year. *Achievement tests should include a test in language if this subject is being studied in the senior year. Applicants who wish to deviate from this program should notify the Dean of Admission.*

Students in the eleventh grade who plan to attend a college using the College Board tests are urged to take the scholastic aptitude tests and the achievement tests in language and mathematics in May if these subjects are not to be continued in the twelfth grade.

Students who graduate at mid-year should take all tests in December or January of their senior year.

Applicants should register for these examinations as soon as possible with the Secretary of the College Board, Box 592, Princeton, New Jersey. Students living in Arizona, California, Colorado, Idaho, Montana, Nevada, New Mexico, Oregon, Utah, Washington, Wyoming, Alaska, Hawaii or Australia should register with the Secretary of the College Board, Box 9896, Los Feliz Station, Los Angeles 27, California. Veterans are exempted from these tests if their location and service make examinations impossible.

REGENTS EXAMINATIONS

Applicants from the New York State public schools are expected to submit scores made on the Regents Examination in addition to the scholastic aptitude and achievement tests given by the College Entrance Examination Board.

ADMISSION FROM INSTITUTIONS OF COLLEGIATE RANK

Correspondence concerning admission of transfers should be addressed to the Dean of Admission.

To be eligible for transfer a candidate must meet the following requirements:

1. His credits must satisfy the full entrance requirements of Amherst College.

2. He must have completed creditably the work of at least one year in an institution of collegiate rank, and his general average at the institution he is leaving must correspond to or be better than the required Amherst graduation average of seventy per cent.

3. He must present a statement of honorable dismissal.

4. He must file a formal application for admission by transfer.

Candidates for admission by transfer are admitted in September only.

Candidates should note that, in general, only students with a B average or better will be accepted for admission as transfers.

Special consideration is given applicants from junior and community colleges who have made distinguished academic records.

Some financial aid is available for transfer students.

COOPERATIVE ENGINEERING-SCIENCE PROGRAM

In order to facilitate the combination of a liberal arts course with education in science and engineering, Amherst College will permit a student of high standing to pursue a five-year program in which the first three years will be spent at Amherst College and the last two years at the Massachusetts Institute of Technology, or any other engineering school approved by the Dean of the College, with the understanding that if the five-year program is satisfactorily completed the student will receive the degree of Bachelor of Arts from Amherst College and the degree of Bachelor of Science from the engineering school.

SPECIAL BOOKLET

A descriptive booklet entitled *This is Amherst* may be had upon application to the *Dean of Admission*.

Regulations

TERMS AND VACATIONS

The college year 1961-1962 includes two regular semesters of sixteen weeks each. In the fall semester there are a Thanksgiving recess of approximately five days and a Christmas vacation of two weeks; in the spring semester there is a vacation of two weeks.

ATTENDANCE AT COLLEGE EXERCISES

The officer in general charge of matters concerning attendance at college exercises is the Associate Dean.

Students are expected to attend classes regularly and promptly. Attendance at all laboratory periods is required. First-term freshmen and students on probation are allowed no unexcused absences from class or laboratory periods. Each student, unless he is on the Dean's list, must attend his last class before and his first class after the Thanksgiving, Christmas and Spring recesses. At the beginning of the semester each instructor will state his policy with regard to absences in his course, and thereafter he will report to the Dean's Office the name of any student who violates the regulations which the instructor has set up for his own course. In such cases the Dean's Office will take appropriate action which may include a reduction in his credit hours or he may be dropped from the course, or he may be suspended, or he may be dropped from college.

Absences for certain recognized reasons are normally excused. Considerable discretion should be used with regard to unexcused absence, since such absences, even if not excessive, tend to reduce the effectiveness or value of the course. The responsibility for any work missed because of an absence rests entirely upon the student.

All official college vacations and holidays are announced on the College Calendar appearing on page 5 of this catalog.

Meetings of the College are conducted on Monday, Tuesday, Thursday and Friday mornings. All students are required to attend half of these meetings each semester.

STUDENT CONDUCT

The officer in general charge of student conduct is the Associate Dean.

It is the belief of Amherst College that its students want to take responsibility for setting, maintaining, and supporting moral and intellectual standards. With this in mind, the College has adopted an honor code. In a social and moral sense this honor code means the support of those standards which befit the conduct of a gentleman and which will reflect credit on the College, its students, and its guests.

The College reserves the right to exclude at any time students whose

conduct or academic standing it regards as undesirable, and without assigning any further reason therefor; in such cases fees will not be refunded or remitted, in whole or in part, and neither the College nor any of its officers shall be under any liability whatsoever for such exclusion.

RECORDS AND REPORTS

The officer in charge of records and reports is the Registrar of the College.

Reports of standing are sent to parents or guardians at the end of each term. The passing grade in each individual course is 60%. An overall average of at least 70% is required for a degree.

Students' records are confidential and information is released only at the request of the student or of appropriate institutions and officials. Partial transcripts are not issued. Each transcript includes a student's complete record at Amherst College to date.

The first three transcripts are furnished free of charge. For additional transcripts there is a charge of \$1 each, due at the time the transcript is issued at the Office of the Registrar. Checks should be made payable to Amherst College. No records are issued to or for students with unpaid accounts at the Comptroller's Office.

ROOMS AND BOARD

All students, unless specifically excused by the Dean, are required to live either in the dormitories of the College or in fraternity houses. Dormitory rooms are equipped with bed, mattress, pillow, chiffonier, desk, chairs, and bookcase or shelves. Occupants furnish their own blankets, linen, and towels, and may provide extra furnishings if they wish, such as rugs, curtains, lamps, etc.; they may not add beds, sofas, lounges, or other furniture of such nature except under certain circumstances. More complete regulations for dormitory occupancy are contained in the Student Handbook. Room assignments are noted on the invoice from the Comptroller's Office.

All students are required to eat in Valentine Hall unless excused by the Dean. There are no rebates for absence from meals.

STUDENT HEALTH

The officer having general supervision of health, medical care and physical development is the College Physician.

The College's medical staff includes the College Physician on a full-time basis and an orthopedist and psychiatrist who have regular consulting hours on a part-time basis. Outside medical consultants in almost all specialities are available when recommended by the College Physicians. Hospitalization of students, when needed, is usually at the Cooley Dickinson Hospital in Northampton.

Facilities for the adequate care of the great majority of the students' illnesses and injuries are available in the Student Health Office and College Infirmary. The infirmary is a modern well-furnished and comfortable building with a normal capacity of 22 beds, easily expanded to 40 beds when needed, and to 90 beds in case of an epidemic. It is staffed on a 24-hour basis by graduate nurses.

A physical examination is required of each new student in order to make a general survey of his health and to classify and advise him as to suitable physical and athletic activity.

Each student admitted to Amherst College must have been successfully vaccinated for smallpox or must be willing to submit to such vaccination by the College Physician within three months after admission.

Students who are unable to attend classes because of illness are expected to go to the infirmary. Sick excuses are given only for such time as is spent in the infirmary or, if with their families, under a physician's care.

A College Physician supervises all athletic activities and provides first aid and medical care in case of injury.

Parents are notified of infirmary admissions in the case of significant illness or injury. If such cases are serious or unusual, notification will be made by telephone. In emergencies requiring immediate surgery, when parents cannot be consulted in advance, the President of the College will assume responsibility for the authorization of operation.

A health fee of \$20 per semester is charged to each student. This fee entitles him to the services of the Student Health Office, the College Infirmary, and the College Physicians for illnesses and injuries occurring while college is in session, but does not assume the cost of continuing treatment of illness or injury contracted prior to the student's admission to Amherst or while college is not in session. These benefits end with a student's graduation, withdrawal, or dismissal from College. The fee does not cover the cost of such off-campus services as medical consultants, hospitalization, x-ray treatments, dental care, prescriptions, eye glasses, etc.

There is available to all students a group health and accident insurance policy, effective for twelve months beginning annually on September 15 at a cost of \$25 a year, which the College merely collects for the insurance company which writes the policy. This is a "blanket" policy which covers 80% of all medical expenses while under the care of a legally qualified physician or surgeon, to a limit of \$5,000, subject to a deduction of \$50 for services received at a time when the college facilities are not available. This policy provides no coverage for psychiatric care or routine dentistry.

GUIDANCE AND PLACEMENT

In a liberal arts college, where few studies are of direct occupational significance, many undergraduates find the choice of a career a perplexing problem. To help undergraduates solve this problem, the College offers an occupational guidance program under the leadership of a Director of

Guidance and Placement. This program assists students to (1) discover their own special interests, aptitudes, talents, and powers; (2) discover the most promising outlets for these special and individual powers; (3) become familiar with the best techniques in obtaining a job; (4) recognize the principal adjustments needed in changing from a life on the campus to one in the business world; and (5) arrange for interviews with government agencies, business concerns, and other groups interested in employing Amherst graduates. An important part of the guidance program is the annual Career Conferences which bring to Amherst lawyers, doctors, teachers, government employees, businessmen and others for two week ends of discussion with interested undergraduates in many career areas.

Tuition and Fees

The officer having general supervision of the collection of Tuition and Fees is the Comptroller.

A candidate's formal application for admission should be accompanied by a \$10 application fee in check or money order payable to Amherst College. Upon notification of his admission to the College a candidate is required to return with his acceptance a non-refundable advance payment of \$100 which will be credited in full on his first term bill.

Student accounts are payable at the Office of the Comptroller. Semester bills will be mailed approximately two weeks before the due date. Freshmen and other new entrants should make payments on or before arrival. Advance payment by mail upon receipt of a bill will be a convenience to the student and to the College.

For those who prefer to pay monthly, arrangements have been made for a pre-payment plan, including insurance for continued payment in case of death or disability of the parent. For further details write to Insured Tuition Payment Plan, 38 Newbury Street, Boston 16, Massachusetts.

Unless special arrangements have been made with the Comptroller *in advance*, payment in full is expected when due. The due dates are Friday, September 22, 1961 for the first semester, and Monday, January 22, 1962 for the second semester.

Identification cards must be picked up in person at the Comptroller's Office before course cards can be obtained.

SUMMARY OF CHARGES

	<i>Each Semester</i>	<i>Total for Year</i>
Tuition	\$575.00	\$1,150.00
Room	150.00	300.00
Board	237.50	475.00
Health Fee	20.00	40.00
Intercollegiate Athletic Fee	17.00	34.00
Student Activities Fee	18.50	37.00
Total	\$1,018.00	\$2,036.00

On the first semester bill there is a charge of \$25 for twelve months Accident and Sickness Insurance from September 15. If this protection is not desired, the parent or guardian may, not later than September 22, state in writing that the College is relieved of all responsibility in this connection, and request cancellation of the charge. The required Health Fee of \$40 covers only the services of college doctors and campus facilities while college is in session, but no off-campus facilities, consultants or surgeons.

Each new student, or former student reentering, is charged a \$25 Guarantee Deposit refundable after he graduates or otherwise leaves college, less any unpaid charges against him.

Each senior or candidate for the Master of Arts degree is charged a degree fee of \$15 in his final semester.

Miscellaneous charges such as fees for late registration, change of courses, extra courses, library fines, lost or damaged property, etc., are payable currently when incurred.

For delinquencies in Physical Education a charge of \$30 will be levied each semester following sophomore year until the delinquency is removed.

Scholarship awards will be credited on the semester bills. Scholarship loans will be credited after signed notes are received. Scholarships from outside donors will be credited when received. Awards on the second semester bill are tentative, subject to a satisfactory record in the work of the first semester.

A fee for the support of various activities of the student body is determined by the Student Council. This fee is collected by the College and turned over to the Director of Student Activities for expenditure under his supervision. For the year 1961-62 the fee has been set at \$34. For this fee each student receives a copy of the yearbook, the *Olio*; a one year's subscription to the student newspaper and magazine, *The Amherst Student* and *The Amherst Literary Magazine*; and contributes to the support of the College Band, the Glee Club, the Prom, the Debate Council, the radio station, the crew, and sundry other activities of the student body which fall under Council jurisdiction. To this fee is added \$3 covering admission to Masquers performances which are under College rather than Council jurisdiction, making a total of \$37, one half of which, \$18.50, will appear on each semester bill.

SUMMARY OF EXPENSES

Beyond the total amount billed by the College will be the student's personal expenses, membership dues in student organizations, clothing, travel, books, and miscellaneous items — all of which will vary greatly with the individual but will probably range from one to two hundred dollars per semester.

Scholarships and Financial Aid

The officer directly in charge of the administration of scholarships and financial aid is the Associate Dean.

Throughout the history of the College, alumni and friends of Amherst have given or bequeathed funds to assist worthy students having financial need. These beneficiary funds now amount to more than \$3,100,000; their income is distributed annually among students of high character and superior scholastic ability.

A few of these funds are restricted to candidates for the ministry and a few are restricted by other factors, such as the geographical location of the home of the applicant. In some cases it is stipulated that the award from a particular fund shall be made to a particularly designated student. For the most part, however, the income of these funds may be awarded as the College sees fit. Three State Scholarships of full tuition are awarded annually to qualified residents of Massachusetts. For a full list of beneficiary funds please see the Appendix.

SCHOLARSHIPS FOR THE THREE UPPER CLASSES

Applicants for scholarships, or for renewal of scholarships, from the three upper classes must file an account of their income and expenditures for the preceding year and an estimate of their income and expenditures for the following year on or before May 1, 1962 at the Associate Dean's office. Appropriate forms are available for this purpose.

As a general scholastic requirement, applicants for scholarships from the three upper classes must pass all of their courses of the preceding year and stand in the upper half of their class, although this level is flexible in individual cases. Scholarship students whose work is unsatisfactory may expect to receive a greater portion of aid in the form of a loan, in contrast to the loan policy indicated below.

SCHOLARSHIPS FOR ENTERING STUDENTS

More than 80 scholarships are awarded annually to applicants for admission to college who are in need of financial aid and who meet the entrance requirements in full. These scholarships range from \$200 to \$2,300 per year and are awarded for the first year in residence.

All candidates for these scholarships must be candidates for admission and must take the scholastic aptitude and achievement tests given by the College Entrance Examination Board. Correspondence concerning scholarships should be addressed to the Associate Dean of the College. Each applicant for scholarship aid must file a formal application before February 1. No special examinations are needed other than the College Board tests required for admission.

FINANCIAL AID POLICY

Amherst has recently broadened its financial aid program so that scholarship grants, loans, and employment all play an important part. Once the financial assistance required by a student is determined, a portion of the aid may be an outright grant in the form of a scholarship, a portion may be in the form of a loan, and some may be supplied through the earnings of the student at college. Generally speaking, the loan will not exceed 20% of the total aid in the sophomore year, 30% in junior year and 40% in senior year. Special circumstances of an individual may vary these proportions. Loans are made at an interest rate of 1% per annum until one year after graduation or completion of graduate school or military service. Thereafter, repayment is made at a minimum of \$10 per month including interest at the rate of 2% per annum. Scholarship aid is not contingent upon acceptance of a loan. Some students prefer to earn more money in the summer or during the college year so that no loan is needed.

In addition to the loans which are made in conjunction with scholarship grants, there is a Student Loan Fund (see below).

SPECIAL SCHOLARSHIPS

Sloan National Scholarships: These special awards were established by the Alfred P. Sloan Foundation and are open to applicants who reside in the continental United States. With one exception, the stipends granted under these scholarships vary with the financial need of the applicant. Awards range from a minimum of \$200 to a maximum of \$2000 and are renewed each year provided the recipient's performance continues on a high level and his relative financial need does not change. One \$200 honorary Sloan Award is made to an outstanding applicant irrespective of financial need. Sloan awards are made to students who have outstanding academic records in secondary school, who have demonstrated unusual initiative, and who appear to have the character and personality required for future leadership.

Alumni Fund Scholarships: A limited number of special awards financed from the Amherst Alumni Fund are made to outstanding students. Their amount depends upon individual need but stipends range up to \$2,000 and are renewed annually unless the recipient fails to maintain a high scholastic average or his financial need decreases.

General Motors College Scholarship: The stipend for this award is determined by demonstrated need up to a maximum of \$2,000 per year. The purpose of the award is to enable an outstanding student to attend college irrespective of his financial resources. The primary considerations, apart from demonstrated need, are the worth, talent, and qualifications of the individual applicant. The General Motors award is renewed for the four undergraduate years provided the student continues to meet the required standards.

Procter and Gamble Scholarship: This award includes full tuition and an annual allowance for books, fees, and supplies (excepting room and board)

for the entire four-year course. It is made to a student of unusual ability and promise who could not attend college without considerable financial assistance.

Other Special Scholarships: Also available in recent years have been scholarships sponsored by several other foundations, trusts, and corporations. These organizations include The Westinghouse Corporation, The Edwin Gould Foundation for Children, Merrill Lynch, Pierce, Fenner & Smith, The Agnes M. Lindsay Trust, the Hubshman Foundation, and the Allied Chemical Corporation.

RESIDENTS OF AMHERST

At the discretion of the Trustees of the College, free tuition may be granted to applicants for admission who can satisfy the entrance requirements, who have been residents of Amherst for three years before the time of admission to college, and whose parents have also been residents of Amherst for three years. The grants are continued throughout the college course, provided such students satisfy the College's scholarship requirements, conform to its regulations, and their parents continue to live in Amherst.

STUDENT LOAN FUND

Through the liberality of friends of the College, loans of a limited amount can be made to a few students in the later years of their course at a low rate of interest. In accordance with the conditions set by the donors, use of the Loan Fund is limited to students in good scholastic standing whose habits of expenditure are economical and who may have emergency needs not covered by regular financial aid procedures. Further information about this fund is available from the *Business Manager*.

FINANCIAL AID BOOKLET

A more detailed description of the financial aid program, *An Outline of Costs and Financial Aid at Amherst College*, is available upon request from the Associate Dean.

Degree Requirements

BACHELOR OF ARTS

The degree, Bachelor of Arts, is conferred upon students who have satisfactorily met the requirements described below. The plan of studies leading to this degree is arranged on the basis of the equivalent of an eight-semester course to be pursued by students in residence at Amherst College.

The degree, Bachelor of Arts, *cum laude*, *magna cum laude*, or *summa cum laude* (Degree with Honors) is awarded to students who have successfully completed an approved program of honors work with a department or group.

Other students who satisfactorily meet the requirements as indicated below receive the degree, Bachelor of Arts, *rite*.

REQUIREMENTS

The Bachelor of Arts degree is awarded to students who:

1. Complete a minimum of one hundred and twenty-eight credit hours of which at least sixty-four must be completed in the freshman and sophomore years and at least sixty-four in the junior and senior years;
2. In freshman and sophomore years complete three two-year sequence courses in natural science, social science, and English-Humanities;
3. In junior and senior years take at least fifteen credit hours outside the division in which they are majoring;
4. Satisfy the requirements in language and the humanities;
5. Pass a comprehensive examination in their major department;
6. Complete certain prescribed work in public speaking and physical education;
7. Have no deficiencies in the work of any year; and
8. Attain a general average of 70 percent in the courses completed at Amherst College and a grade of at least 70 percent in every course completed at another institution.

Exceptions

Exceptions to these requirements will be considered in the following cases:

A. A Sophomore who finds it necessary to exceed the sixty-four credit-hour minimum of the first two years in order to take an introductory course in a department in which he plans to major may, with the Dean's permission, postpone a required sophomore course to the junior year.

B. A portion of the fifteen credit-hour extra-divisional requirement may be waived by departmental representatives whenever they consider it justified. In such cases, students, both *rite* and honors, must submit a written statement to the representatives of the departments in which they are majoring giving the reasons why the requirement should be waived.

C. With permission of the Dean students may take Astronomy 22 in lieu of Science 22 in satisfying the sophomore science requirement.

Language Requirements

The college language requirement may be satisfied in any of the following languages: French, German, Italian, Russian, Spanish, Latin, or Greek.

In modern languages the requirement may be met in either of the following ways:

1. At entrance, by a satisfactory score in the College Entrance Examination Board Achievement Test in the language, plus a demonstration of ability to comprehend the spoken language as shown either by a satisfactory score in the Listening Comprehension Test administered by the College Entrance Examination Board, or in an aural examination to be given to freshmen at the beginning of the college year.

2. After entrance, by passing course 5 in French, German, or Spanish; or by passing course 21 in Italian; or by passing Course 3 in Russian; or by passing reading and aural comprehension examinations to be given at the end of course 3 in French, German, Italian, or Spanish.

In ancient languages the requirement may be met in either of the following ways:

1. At entrance, by a satisfactory score in the College Entrance Examination Board Achievement Test in Latin or Greek.

2. After entrance, by passing Latin 3 with a grade of C, by passing any higher numbered course in Latin, or by passing Greek 3.

Humanities Requirements

In order to satisfy the Humanities requirement, students must elect, in addition to the prescribed freshman humanities course, three further semester courses, for a total of at least nine credit hours, from the following three groups:

1. Philosophy, Religion, Classical Civilization
2. Music, Fine Arts, Dramatic Arts
3. English or foreign literature.

The requirement may be met *either* by electing one semester course from each of the three groups *or* by electing two semester courses from one group and an additional semester course from either of the other two groups. Two of these courses must be completed by the end of the sophomore year. The particular courses which may be offered in satisfaction of this requirement are those designated by the departments concerned in their announcement of course offerings, and are listed on page 6, Section 3 of the 1961-1962 *Announcement of Courses*.

The Major Requirement

A major consists of the equivalent of thirty credit hours pursued under the direction of a department or special group. A major cannot begin later than the junior year and may begin in either the freshman or sophomore

year. At least one course in the major must be included in each semester of both junior and senior years. Each department decides whether a freshman course in a department shall count toward its major.

The major can be met in accordance with either of two plans:

Plan A: A student may complete the thirty credit hour requirement within one department. He must complete at least twenty-two credit hours within one department, however, in which case he may complete the remaining credit hour requirement in related fields approved by the department.

Plan B: Combinations of courses not provided for under Plan A, but similar in aim to the established group majors in American Studies and Biophysics, may be made with the consent of the several departments concerned and of the Dean.

MASTER OF ARTS

The degree of Master of Arts is conferred upon students who have received the Bachelor of Arts degree either from Amherst College or from another college which has similar requirements for the Bachelor of Arts degree, and who have met the requirements described below. Application forms and a detailed explanation of the requirements may be obtained from the Dean. The tuition charge for the Master of Arts degree is \$1,150.

REQUIREMENTS FOR MASTER OF ARTS DEGREE

To become a candidate for the Master of Arts degree, students are expected to have had at least a B average or its equivalent in their undergraduate work. They should secure approval of proposed courses of study from the Dean, the department concerned, and the Committee of Six, not later than the June preceding the opening of the college year in which they plan to begin work for this degree.

Candidates are required to complete at least eight semester courses of advanced character, or the equivalent, under the direction of the department concerned, to secure grades of at least B in every course, to spend a minimum of two semesters in residence at Amherst College, to prepare a satisfactory thesis, and to pass oral and written comprehensive examinations.

COOPERATIVE DOCTOR OF PHILOSOPHY

A cooperative Doctor of Philosophy program has been established by Amherst, Mount Holyoke, and Smith Colleges and the University of Massachusetts. The degree is awarded by the University of Massachusetts but some and perhaps much — and in a few exceptional cases even all — of the work leading to the degree might be done in one or more of the other institutions.

When a student has been awarded a degree under this program, the fact that it is a cooperative doctoral degree involving Amherst, Mount Holyoke, and Smith Colleges and the University of Massachusetts will be indicated on the diploma, the permanent record, and all transcripts, as well as on the commencement program.

The requirements for the degree are identical to those for the Ph.D. degree at the University of Massachusetts except for the statement relating to "residence." For the cooperative Ph.D. degree "residence" is defined as the institution where the dissertation is being done.

Students interested in this program should write to the Dean of the Graduate School at the University of Massachusetts.

Averages

Candidates' averages each semester are computed on the basis of all courses taken at Amherst College, and candidates must have a general average, including failure grades, of 70 percent in courses taken at Amherst College to be eligible to receive the degree Bachelor of Arts.

DEGREE WITH HONORS

The degree Bachelor of Arts with honors is awarded at graduation to students whose academic records give evidence of particular merit. It may

COURSE DIVISIONS

1961-1962

DIVISION I <i>The Humanities</i>	DIVISION II <i>Social Studies</i>	DIVISION III <i>Mathematics and Natural Sciences</i>
Dramatic Arts English Fine Arts French German Greek Humanities Italian Latin Music Philosophy Public Speaking Religion Russian Spanish	American Studies Economics History Legal Studies Political Science	Astronomy Biology Biophysics Chemistry Geology Mathematics Physics Psychology Science

be awarded *cum laude*, *magna cum laude*, or *summa cum laude*, according to the level of achievement of the candidates. All degrees with honors are noted on the diploma and the Commencement program, and are announced in the annual catalog.

The award of honors is made by the Faculty of the College. In making such awards the Faculty will take into account the following factors: (1) Candidates must have a minimum college average of 80 to be eligible to be considered for the degree *cum laude*, of 86.00 for the degree *magna cum laude*, and of 90.00 for the degree *summa cum laude*. (2) Candidates must receive the recommendation for the degree *cum laude*, *magna cum laude*, or *summa cum laude* from the department in which they have done their major

CURRICULUM FOR FIRST TWO YEARS 1961-1962

The complete program for freshmen and sophomores is:

<i>Science</i>	<i>History</i>	<i>Humanities</i>	<i>Elective</i>	<i>Public Speaking</i>
FRESHMAN YEAR				
Physical Science and Mathematics	European Civilization	English and Humanities	Foreign language or other elective	
SOPHOMORE YEAR				
Two semester courses from: A. Chemistry and Biology B. A semester course in Evolution of the Earth and Man and a semester course in either Astronomy, Biology, Chemistry, Geology, or Psychology C. Astronomy 22 (see Note C, page 41)	Problems in American Civilization	Two courses from: A. Literature — English or foreign B. Philosophy, Religion, Classical Civilization C. Fine Arts, Music and Drama	Elective	Public speaking

work. Each department will define the conditions upon which it will be their practice to make recommendations to the Faculty. (3) In the case of the award of *magna cum laude* and *summa cum laude* the Dean and the Committee of Six will review the entire record of candidates and will transmit to the Faculty their recommendations. Only students of marked distinction in both general work and in the field of honor studies will be recommended for the *summa cum laude* degree.

In exceptional cases, upon recommendation of the department in which the candidate has done his major work, the Committee of Six may recommend to the Faculty that a student be awarded a degree of honors for which he does not have the required average.

A student is expected to have a general average of at least 80 percent at the time he is accepted as a candidate for honors in a department or group. However, if the department concerned approves, a student whose average is below 80 percent may become a candidate for the degree with honors.

A candidate for a degree with honors may be permitted, at the discretion of the department in which he is majoring, to substitute in his junior year a conference course for one of his regular three- or four-hour courses, and in his senior year a conference course for one or two of his regular three- or four-hour courses.

FOUR-COLLEGE COURSES

Amherst has an arrangement with Mount Holyoke and Smith Colleges and the University of Massachusetts by which any of their courses are open to Amherst students if properly qualified and if, in the opinion of the Dean, this procedure seems reasonable. The courses concerned will ordinarily be advanced courses in the student's major subject, not available currently on this campus. In general, permission to take courses on another campus will be given only to students who are or who expect to be candidates for the degree with honors.

Faculty Statement on Intellectual Responsibility

In order to cooperate with the Student Council in its efforts to maintain an honor system at Amherst College, the Faculty has voted the following statement and articles:

A Statement of Intellectual Responsibility Among Students at Amherst College:

The following Articles are an institutional expression of the basic fact that every man's education is the product of his own intellectual efforts. Amherst cannot educate a man who will not educate himself. Amherst sees no value in making its facilities available to a man who avoids the responsibility and opportunity for his own education. Every man who enrolls and remains at Amherst, therefore, understands that to submit work which is not his own violates the purpose of the College and of his presence there. No intellectual community can maintain its integrity or be faithful to its members if violations of its central purpose are for any reason tolerated.

This principle of intellectual responsibility applies to all work done by students.

ARTICLE I

This statement will be perpetuated in the Amherst College Bulletin, Student Handbook, and other publications deemed appropriate. The following affirmation will be printed on the back of course enrollment cards for every course; it must be signed before enrollment can be considered:

"I have read, understand, and accept the Statement of Intellectual Responsibility Among Students at Amherst College, and agree with this principle as it relates to this course.

..... (signed)"

ARTICLE II

Section 1. Examinations will not be proctored; orderly and honorable conduct of examinations will be the individual and collective responsibility of the students concerned, in accordance with the Statement above.

Section 2. The instructor may be present at examinations at appropriate times to answer any questions that arise.

ARTICLE III

In instances of purported or ascertained violation of the Statement of Intellectual Responsibility, the Student Council will, after proper scrutiny and deliberation, recommend the course of action to be followed, the recommendation being subject to the approval of the President of the College.

ARTICLE IV

The Student Council shall make provision for explaining the Statement of Intellectual Responsibility to incoming freshmen and to new members of the Faculty, and for publicizing and interpreting the Statement to the Student Body during the year. The Student Council will consider any problems of maintaining intellectual responsibility which are brought before them by the students. They will make any recommendations which they deem advisable for action by the Faculty and Administration. At some time each year the Council shall also be responsible for a serious review of the effectiveness of these procedures in promoting the central purpose of the College.

II

Courses of Instruction

Courses of Instruction

1961-1962

a. Freshman courses are numbered 1-20; sophomore courses 21-40; and junior and senior courses 41-80.

b. In general, odd-numbered courses are given in the first semester, and even-numbered courses in the second semester; the letter "S" after a number indicates that the number of the course is an exception to the usual numbering system.

c. Honors courses are offered to eligible juniors and seniors and are numbered 69, 70 and 79, 80 respectively. Election of these courses may be made only by candidates for a degree with honors unless exception is made by the department concerned and by the Dean.

Reading Course

INDEPENDENT READING

1 to 3 credit hrs.

Under the direction and at the discretion of a member of the faculty, the several departments offer an independent reading course which will permit selected upperclassmen to read widely in a field of special interest. The student will be on his own, will pursue an extensive program of independent reading, and will be subject to an examination at the end of the semester. This examination by his supervisor will determine his grade for the course. The number of credit hours will be based on the extent of the reading the student undertakes and the degree of maturity and difficulty of the body of works read and will be determined by consultation between teacher and student before the start of the semester.

The student will develop a coherent plan of reading beyond the basic bibliography with which he starts and will be able to follow specialized topics opened up by his general reading.

Interested students should consult with a member of the faculty in the department in which they wish to work. *Elective for Juniors and Seniors for one or both semesters each year.*

GROUP READING COURSE.

1 credit hr.

Under the direction of a member of the faculty any group of students may organize themselves to read in a field of special interest. *Elective for all students. Offered first and second semesters.*

American Studies

Professors COMMAGER, KENNEDY, LATHAM, C. MORGAN, MARX,* ROZWENC, TAYLOR, WARNE, and ZIEGLER; Associate Professors GREENE and MORGAN; Assistant Professors HALSEY, HAWKINS* and KATEB; Messrs. GUTTMANN
NICKLASON AND SCHRAG.

American Studies is a program which searches for an understanding of

* Absent on leave 1960-61.

the relations among institutions, ideas, and artistic imagination within the American experience. By combining work in a number of the traditional scholarly disciplines it aims to place the student in a position where he can see and can make some statements about these relations.

A major in American Studies is required to develop a program of courses and independent reading which will enable him to pass a series of intensive written and oral examinations in the spring semester of the senior year. The new examinations for American Studies will apply to students in the class of 1962 and after. These examinations will cover two aspects of American civilization described as follows:

(1) A major in American Studies is expected to know the main forces which have shaped American life in every period of American history—from the first settlement at Jamestown to our contemporary society. Consequently an American Studies major must understand the basic political and social institutions of every period, the basic forms of economic organization, the competing myths and ideologies, and the programs of social action.

(2) A major in American Studies is expected to have studied the classic writings and other creative efforts in the American intellectual tradition. This includes significant works in literature, art, philosophy, and political and social theory.

Although the Department of American Studies regards the two semester courses in "The History of American Society" (History 33-34) as the nearest equivalent to a foundation course, majors in American Studies are expected to work out for themselves a program of study inside and outside of courses which will enable them to pass the intensive examinations of the senior year. Such a program of study should include a heavy emphasis on history and literature, and a disciplined knowledge of at least one other field *viz.*, economics, political science, sociology, philosophy, art, or music.

All majors in American Studies will be given a reading list which will be made available to them at the end of the sophomore year. At the beginning of the first semester of the senior year all majors in American Studies shall take a written examination on the works which appear on the reading list. Students who fail to perform satisfactorily in this examination in September (or in a second try in December) will not be permitted to take either the *rite* or honors seminar in the senior year. Such students will be required to complete, on their own, an extended list of readings in preparation for an examination at the end of the senior year which will enable the Department of American Studies to determine whether or not they can be recommended for the degree of Bachelor of Arts.

American Studies 72 is required of all majors in American Studies who are not admitted to the honors program and is to be taken in the senior year.

American Studies 70, 79 and 80 are required of all honors candidates. In conjunction with American Studies 79 and 80, each candidate shall write an original essay on a topic which has been approved by the Department.

- 21, 22. PROBLEMS IN AMERICAN CIVILIZATION. Professors HALSEY, KENNEDY, MARX,* MORGAN, ROZWENC, TAYLOR, WARNE,† and ZIEGLER; Messrs. GUTTMANN, NICKLASON and SCHRAG.

A study of selected problems in American civilization. This course does not provide a survey of American history, but centers attention on a limited number of topics which are treated from various viewpoints, including the political, economic, and cultural. Five lectures and one two-hour laboratory period every two weeks. *Required for Sophomores. First and second semesters. Four credit hours each semester.*

24. THE AMERICAN ECONOMY. Professor NELSON. 4 credit hrs.
(Same course as Economics 24.) *Elective for Sophomores. Second semester.*

25. AMERICAN CONSTITUTIONAL DEVELOPMENT. 4 credit hrs.
Professor LATHAM.
(Same course as Political Science 25.) *Elective for Sophomores. First semester. (Omitted 1961-62.)*

27. POLITICAL PARTIES. Professor KESSEL. 4 credit hrs.
(Same course as Political Science 27.) *Elective for Sophomores. First semester.*

33. THE HISTORY OF AMERICAN SOCIETY. 4 credit hrs.
Professor ROZWENC.
(Same course as History 33.) *Elective for Sophomores. First semester.*

34. THE HISTORY OF AMERICAN SOCIETY. 4 credit hrs.
Professor ROZWENC.
(Same course as History 34.) *Elective for Sophomores. Second semester.*

36. THE HISTORY OF AMERICAN EDUCATION. 4 credit hrs.
Professor HAWKINS.
(Same course as History 36.) *Elective for Sophomores. Second semester. (Omitted 1961-62.)*

42. LABOR ECONOMICS. Professor WARNE. 4 credit hrs.
(Same course as Economics 42.) *Elective for Sophomores. Second semester.*

43. AMERICAN LITERATURE. 3 credit hrs.
Mr. GUTTMANN.
(Same course as English 43.) *Elective for Juniors. First semester.*

44. AMERICAN LITERATURE. 3 credit hrs.
Professor PRITCHARD.
(Same course as English 44.) *Elective for Juniors. Second semester.*

- 45S. AMERICAN ART. Professor C. MORGAN. 3 credit hrs.
(Same course as Fine Arts 45.) *Elective for Juniors. Second semester.*

* Absent on leave 1961-1962.

† Absent on leave second semester.

47. AMERICAN PHILOSOPHY. Professor KENNEDY. 3 credit hrs.
(Same course as Philosophy 47.) *Elective for Juniors. First semester.*
57. THE SOUTH SINCE THE CIVIL WAR. 4 credit hrs.
Professor HAWKINS.
(Same course as History 57.) *Limited to 25 students. Elective for Juniors. First semester. (Omitted 1961-62.)*
59. SOCIETY AND POLITICS IN DE TOCQUEVILLE'S AMERICA. Professor ROZWENC. 4 credit hrs.
(Same course as History 59.) *Elective for Juniors. First semester. (Omitted 1961-62.)*
- 60S. SOCIETY AND POLITICS IN THE ERA OF THE NEW DEAL. Professor ROZWENC. 4 credit hrs.
(Same course as History 60.) *Elective for Juniors. First semester. Limited to 15 students.*
61. FOUNDATIONS OF AMERICAN CIVILIZATION. 4 credit hrs.
Professor GREENE.
(Same course as History 61.) *Elective for Juniors. First semester.*
62. AMERICAN DIPLOMATIC HISTORY. 3 credit hrs.
Professor GREENE.
(Same course as History 62.) *Elective for Juniors. Second semester. (Omitted 1961-62.)*
63. AMERICAN ECONOMIC HISTORY. 4 credit hrs.
Professor TAYLOR.
(Same course as Economics 63.) *Elective for Juniors. Limited to 15 students. First semester.*
64. AMERICAN ECONOMIC HISTORY. 4 credit hrs.
Professor TAYLOR.
(Same course as Economics 64.) *Elective for Juniors. Limited to 15 students. Second semester.*
65. READINGS IN AMERICAN LITERATURE. 4 credit hrs.
Professor MARX.
(Same course as English 65.) *Elective for Juniors. First semester. Seminar course limited to ten students, admission with the consent of instructor. (Omitted 1961-62.)*
66. THE PROGRESSIVE GENERATION. 4 credit hrs.
Professor GREENE.
(Same course as History 66.) *Limited to 15 students. Elective for Juniors. Second semester.*
70. INTRODUCTION TO HONORS WORK IN AMERICAN CIVILIZATION. Professors ROZWENC and GREENE. 4 credit hrs.
A study of classic writings in diverse areas of American Civilization plus modern works representing problems of methodology in the various

disciplines within the American Studies program. One two-hour seminar weekly. *Elective for Juniors with the consent of the Department. Second semester.*

72. SEMINAR IN AMERICAN CIVILIZATION. 4 credit hrs.

Mr. NICKLASON.

A study of selected topics in American Civilization including problems of methodology in the various disciplines within the American Studies program. One two-hour seminar weekly. *Elective for Seniors with the consent of the instructor. Second Semester.*

73. CONFERENCE COURSE IN AMERICAN INTELLECTUAL HISTORY. Professor COMMAGER. 4 credit hrs.

(Same course as History 73.) *Elective for Juniors. Admission by consent of the instructor only. First semester.*

74. CONFERENCE COURSE IN AMERICAN INTELLECTUAL HISTORY. Professor COMMAGER. 4 credit hrs.

(Same course as History 74). *Elective for Juniors. Admission by consent of the instructor only. Second semester.*

79. SEMINAR IN AMERICAN CIVILIZATION. 6 credit hrs.

Professors GREENE, GUTTMANN, and ROZWENC.

Honors work in American civilization. *Limited to fifteen students. Elective for Seniors with the consent of the instructor. First semester.*

80. HONORS. 6 credit hrs.

Elective for Seniors. Second semester.

Astronomy

Associate Professors LINNELL* and YOSS;

Assistant Professors KOCH and OLSON.

A joint Astronomy Department provides instruction at Amherst, Mount Holyoke and Smith Colleges and the University of Massachusetts. Introductory courses are taught separately at the four institutions; advanced courses are taught jointly.

ASTFC indicates courses offered by the Four College Astronomy Department. These courses are listed in the catalogs of all four institutions.

Two alternative programs are available leading to a degree in astronomy. One is the honors program, designed to meet the needs of the student who wishes to prepare for graduate work in astronomy or astro-physics, or who wishes a combined honors program with mathematics or physics. The other is the departmental major, for the student who wishes to study astronomy largely for its cultural value, but who does not plan graduate study.

* Absent on leave 1961-62.

The facilities of all four institutions are available for thesis work. Should the needs of the thesis project so dictate, the department may arrange to obtain special materials from other observatories.

Honors: By the end of his sophomore year, the student should have completed Astronomy 22, Physics 24, and Mathematics 3. To arrange the balance of his undergraduate program, the student should consult with the department.

Major: This program requires less extensive training in physics and mathematics. A student interested in an astronomy major should choose his electives in consultation with the department.

Since students taking comprehensive examinations in astronomy will not all have had similar sets of courses, the comprehensive examination will cover areas of astronomy and related fields chosen to fit the preparation of the individual student. A student may elect to take a written or an oral examination, prepared by members of the department. If written, the examination will extend for a nominal period of three hours; if oral, the examination time will be shorter at the discretion of the examiners.

22S. (ASTFC 21) DESCRIPTIVE ASTRONOMY. 4 credit hrs.

Professor KOCH.

Four topics of general astronomical and philosophical interest will be considered. They are: (1) Time, (2) The Origin of the Solar System, (3) The Exploration of our Galaxy, (4) Cosmology.

Part of the laboratory work will involve observing with the 18-inch refractor and 4-inch camera.

Four hours classroom and one laboratory period per week. *Elective for Sophomores. First semester. (Omitted 1961-62.)*

22. (ASTFC 22) DESCRIPTIVE ASTRONOMY. 4 credit hrs.

Professor KOCH.

Same course as 22S. *Elective for Sophomores. Second semester.*

24. (ASTFC 24) DEVELOPMENT OF ASTRONOMY. 3 credit hrs.

The progress of astronomy through the work of great men. The development of important ideas in the field from ancient to modern times. Three hours of classroom work per week. *Requisite: Astronomy 22. Elective for Sophomores. Second semester. (Omitted 1961-62.)*

University—M, W 1:45-3:00.

31. (ASTFC 31) STATISTICAL ASTRONOMY. 3 credit hrs.

Professor YOSS.

Stellar motions as derived from trigonometric, spectroscopic, and statistical parallaxes, proper motions, and radial velocities. Stellar luminosity functions, and related topics. Three hours of classroom work per week. *Requisite: Science 1, 2; Astronomy 22. Elective for Juniors. First semester.*

Mt. Holyoke—M, W 1:45-3:00, Observatory.

32. (ASTFC 32) GALACTIC STRUCTURE. 3 credit hrs.

Professor YOSS.

Properties of the galactic system revealed by star clusters, the general distribution of stellar types, and the interstellar medium. Kinematics and dynamics of galactic motion. Recent results from the field of radio astronomy. Three hours of classroom work per week. Requisite: Science 1, 2; Astronomy 22. *Elective for Juniors. Second semester.*

Mt. Holyoke—M, W 1:45–3:00, Observatory.

33. (ASTFC 33) CELESTIAL MECHANICS. 3 credit hrs.

Professor KOCH.

Development of the two body problem and the restricted three body problem as applied to the solar system and stellar systems. Three hours of classroom work per week. Requisite: Astronomy 22, Mathematics 3. *Elective for Juniors, First semester.*

Amherst—M, W 3:30–4:45, Morgan.

34. (ASTFC 34) DOUBLE STARS. Professor KOCH. 3 credit hrs.

Analysis of the orbits of double stars and discussion of their physical characteristics. Three hours of classroom work per week. Requisites: Astronomy 22, Mathematics 3. *Elective for Juniors. Second semester. (Omitted 1961–62.)*

Amherst—M, W 3:30–4:45, Morgan.

39. (ASTFC 39) LABORATORY ASTRONOMY. 3 credit hrs.

Professor OLSON.

Study and development of observing procedures. Analysis of astronomical observations. One classroom hour, four laboratory hours per week. Requisites: Science 1, 2; Astronomy 22. *Elective for Juniors. First semester.*

Smith—T 1:45–4:45, Th 7:30–9:30, Lilly.

41. (ASTFC 41) ASTROPHYSICS I. 3 credit hrs.

Introduction to the theory of atomic spectra as applied to the analysis of stellar atmospheres. Transfer of radiation, determination of temperatures, pressures, and abundances. Three hours of classroom work per week. Requisite: Physics 24. *Elective for Juniors. First semester. (Omitted 1961–62.)*

University—T. Th 1:45–3:00.

42. (ASTFC 42) ASTROPHYSICS II. Professor LINNELL. 3 credit hrs.

Gas laws and nuclear reactions as applied to the structure of stellar interiors. Evolution of stars. Three classroom hours per week. Requisite: Physics 24. *Elective for Juniors. Second semester. (Omitted 1961–62.)*

Amherst—T, Th 1:45–3:00, Morgan.

79–80. CONFERENCE COURSES. The Department: 6 credit hrs.

Required of majors and honors students. *Elective for Seniors. First and second semesters.*

Biology

Professors KIDDER,* PLOUGH (emeritus), SCHOTTÉ, and WOOD; Associate Professors HEXTER and YOST; Assistant Professors BROWER and LEAD-BETTER; Mr. DOOLITTLE

Note: A major in biology will consist of at least 24 semester hours in biology together with any 8 semester hours in chemistry. Under certain conditions these specific requirements may be modified with the approval of the department. Any one of the sophomore science courses (Science 22, 23 or 23S) counts as 4 semester hours of biology toward a major.

Honors work in biology is intended to offer an introduction to the purposes and methods of biological research. It is an excellent preparation for those students who wish to become professional scientists or who wish to acquire first-hand knowledge of the methods of modern science.

Candidates for the degree with honors in biology must have completed by the beginning of the senior year a minimum of 16 semester hours in biology; sophomore courses may be counted. Honors candidates must elect Biology 79, 80 and complete by the end of senior year a minimum of 32 semester hours in biology.

The work for honors in biology consists of two main activities: (a) participation in a general and in a specialized seminar course in which the candidate reports on papers from current scientific periodicals; (b) an original investigation under the direction of some member of the staff.

In spring of his senior year the candidate takes a comprehensive examination covering the whole field of biology. He also writes a thesis presenting the results of his research to the whole Department.

All students must take a comprehensive examination by the second semester of the senior year. The examination, which will cover the different areas of biology, may be either oral, written or a combination of the two, as determined by the department. To aid in the preparation for the comprehensive examination, a reading list will be distributed to all majors at the time of registration.

22. Same Course as Science 22. 4 credit hrs.

23, 23S. Same Course as Science 23, 23S. 4 credit hrs.

May be elected as a 3 hour course without laboratory by juniors and seniors with the approval of the department.

25. ECOLOGY. Professor BROWER. 4 credit hrs.

A study of the interrelations of living organisms and their environment. The natural regulation of animal numbers, problems of populations, natural selection, and the origin and distribution of species will be discussed from an experimental approach. Three hours classroom and four hours laboratory or field work per week. Requisite: one semester in biology or the consent of the instructor. *Elective for sophomores. First semester.*

* Absent on leave 1961-62.

26. COMPARATIVE ZOOLOGY. Professor BROWER. 4 credit hrs.

A comparative study of adaptation, behavior, and physiology in the animal kingdom. Problems of respiration, feeding, protection, sensory mechanisms, reproduction, and principles of behavior will be discussed. Three hours of classroom and four hours of laboratory or field work per week. *Elective for sophomores. Second semester.*

41. COMPARATIVE ANATOMY. Professor WOOD. 4 credit hrs.

A study of the anatomy of vertebrates and a review of vertebrate evolution. Three hours classroom and four hours laboratory work per week. Requisite: One semester of biology. *Elective for Juniors. First semester.*

42. BOTANY. Professor YOST. 4 credit hrs.

The relation of the study of plants to certain fundamental problems in biology. Selected topics covered are the ultra-structure of cells, photosynthesis, water transport, internal and environmental control of growth and development and evolution. Three hours of classroom and four hours of laboratory per week. Requisite: one semester each of biology and chemistry. *Elective for juniors (and sophomores with the consent of the instructor). Second semester.*

43. EMBRYOLOGY. Professor SCHOTTÉ. 4 credit hrs.

A description of developmental processes in the vertebrates, with an introduction to the physiology of development. Four hours classroom and two hours laboratory work per week. Requisite: One semester of biology. *Elective for Juniors. First semester.*

44. GENETICS. Professor HEXTER. 4 credit hrs.

The facts of heredity, basic and advanced. Three hours of classroom and four hours of laboratory work per week. Requisite: one semester of biology. *Elective for juniors (or sophomores with the consent of the instructor). Second semester.*

48. EXPERIMENTAL MORPHOLOGY. 4 credit hrs.

Professor SCHOTTÉ.

An analysis of the problems of differentiation, especially the role of hormones in morphogenesis and regeneration. Three hours classroom and four hours laboratory per week. Requisite: One semester in Biology. *Elective for Juniors. Second semester.*

51. BIOCHEMISTRY. Mr. DOOLITTLE. 4 credit hrs.

A study of the fundamental chemical processes of living matter. Three hours classroom and four hours laboratory work per week. Requisite: One semester of biology and organic chemistry (which may be taken concurrently). *Elective for Juniors. First semester.*

53. CELLULAR PHYSIOLOGY. Professor YOST. 4 credit hrs.

A study of cellular function in relation to structure, with special emphasis on surfaces, cellular energetics, and the reactions of macro-molecules.

Three hours classroom and four hours laboratory work per week. Requisite: one semester each of biology and chemistry. *Elective for Juniors. First semester.*

54. BACTERIOLOGY. Professor LEADBETTER. 4 credit hrs.

A study of the bacteria, yeasts and molds, their physiological activities and genetic relationships. Three hours classroom and four hours laboratory work per week. Requisite: Two semesters in biology and one course in chemistry. *Elective for Juniors. Second semester.*

55. VERTEBRATE PALEONTOLOGY. Professor WOOD. 4 credit hrs.

The evolution of vertebrates as shown by the study of fossils, and the relationship of environment to evolution. Three hours classroom and four hours laboratory work per week. (Same course as Geology 55.) Requisite: One semester in Biology or Geology 22. *Elective for Juniors. First semester.*

71. BIOLOGY OF VIRUSES. Professor LEADBETTER. 4 credit hrs.

A classroom and seminar review of some recent studies of viruses, with special reference to the mode of virus multiplication. Three hours of classroom and four hours of laboratory work per week. Requisite: two semester courses in biology. *Elective for seniors with consent of the instructor. First semester.*

79, 80. BIOLOGY HONORS. The Staff. 4 credit hrs. first semester
8 credit hrs. second semester

All honors students will take this course. The work consists of a combined seminar, specialized seminars, and individual research. Students will elect one of the following specialized seminar courses, with the approval of the department: Biochemistry and Microbiology, Evolution, Experimental Morphology, Genetics, and Radiation Biology. The course is designed for honors candidates, but is open to other advanced students with the consent of the Department. Requisite: Four semester courses in biology. *Elective for seniors. First and second semesters.*

Biophysics

Advisory Committee: Professor BENSON; Associate Professor YOST,
Assistant Professor KROPF (Chairman)

A student may receive the A.B. degree from Amherst with an interdepartmental major in biophysics. This program is designed for a few capable students who wish the breadth of experience this program provides or who wish to prepare for graduate study in this field. The course of study is organized from the course offerings of the various science departments whose disciplines bear on the active work in the area of biophysics. Only the honors course is offered as a course in biophysics.

By the end of his sophomore year, the student should have completed

Biology 22, Chemistry 21 and 24, Mathematics 3, and Physics 24 or their equivalents. During his junior and senior year, his elections should include Biology 44 and 53, Chemistry 41, 42, 43 and 44, Physics 51 or 52S, 55 and Mathematics 31. He should, if possible, also elect one or two more courses in either Biology or Physics, depending upon his interest. He should consider electing one or two junior level courses during his sophomore year if that is feasible. This will allow him more flexibility in his junior and senior years. (In any case, he should consult with a member of the advisory committee as early in his academic career as possible to determine the proper course elections.) He will choose his thesis advisor from those faculty members, in the various science departments, who are interested in this program and willing to direct a thesis in this area. The comprehensive examination will be administered by a committee made up of representatives from the science departments involved in the program.

79-80. SENIOR HONORS COURSE.

2-6 credit hrs. per semester.

Minimum total 8 credit hours.

The work consists of a seminar dealing with problems of current interest in biophysics and the preparation of a thesis based on an individual investigation under the direction of a faculty member.

Chemistry

Professors BEEBE and WHITNEY; Assistant Professors KROPP, LANGFORD, RICHARDS and SILVER*

A student considering a major in chemistry should seek the advice of a member of the Department as early as possible, preferably during his freshman year. This will help the student elect a program which best fits his interests and abilities and which makes full use of his previous preparation. Different programs can be arranged for students considering careers in chemistry, biochemistry, biophysical chemistry, medical research, medicine, and secondary school science teaching.

The minimum requirements for a major in chemistry are Science 21, Chemistry 24, 41, 42, 43, 44, Mathematics 3 and Physics 23 or 24. Chemistry 25 plus a more advanced course may be substituted for Science 21 and Chemistry 24.

A candidate for the degree with honors must also elect as a minimum Chemistry 79, 80 and Chemistry 71-72. Normally an honors candidate will complete the courses required of a major by the end of the junior year. It is highly desirable that an honors candidate, especially if his field of interest is physical chemistry, elect Physics 24, and also one or more additional semesters of physics and Mathematics 31 and 32. Honors candidates will attend the chemistry seminar during their junior and senior years, participating in it actively in the senior year. At this seminar, discussions of topics of current interest will be conducted by staff members, visitors and students.

* Absent on leave 1961-62.

In the senior year an individual thesis problem will be selected by the honors candidate in conference with some member of the Department. Current areas of research in the department are: organic reaction mechanisms, inorganic reaction mechanisms, biophysical chemistry, surface chemistry, and gas phase reaction kinetics. Each candidate will submit a thesis based upon his research work. Recommendations for the various levels of honors will be made by the Department on the basis of the thesis work and the comprehensive examination.

For a student planning graduate work in chemistry, honors, Chemistry 26 and a reading knowledge of German and/or Russian are desirable. (A student may satisfy the minimum standards of the American Chemical Society by taking an honors program including Chemistry 26 and by obtaining a reading knowledge of German.)

21. Same Course as Science 21. 4 credit hrs.
Professors BEEBE, KROFF, and LANGFORD.

24. INORGANIC AND ANALYTICAL CHEMISTRY. 4 credit hrs.
Professors BEEBE and RICHARDS.

A study of the chemistry of inorganic substances with special emphasis on ionic equilibria as met in chemical analysis. The methods of quantitative chemical analysis are applied to provide experimental data for testing certain physical chemical principles. Three hours classroom and four hours laboratory work per week. Requisite. Science 21. *Elective for Sophomores. Second semester.*

25. GENERAL AND ANALYTICAL CHEMISTRY. 4 credit hrs.
Professor RICHARDS.

A study of chemical substances, their structure, their properties and their reactions. This course is intended as a one-semester preparation for Chemistry 41 and 43. Students who receive credit for Chemistry 25 may not receive credit for either Science 21 or Chemistry 24. Three hours classroom and four hours laboratory work per week. *Elective, with consent of instructor, for Sophomores. First semester.*

26. QUANTITATIVE ANALYTICAL CHEMISTRY. 4 credit hrs.
Professor LANGFORD.

The discussion of methods for separation and determination of inorganic substances is continued from Chemistry 24 with emphasis on analysis as an application of equilibrium principles. Electrical and optical methods of chemical analysis are introduced in the lecture and the laboratory. Three hours classroom and four hours laboratory work per week. Requisite. Chemistry 24 or 25. *Elective for Sophomores. Second semester.*

41. PHYSICAL CHEMISTRY. Professor KROFF. 4 credit hrs.

A study of chemical thermodynamics, kinetics and atomic and molecular structure with application to systems of interest to chemists, physicists and biologists. Four hours of lectures and discussions per week. Requisite: Chemistry 24 or 25, Mathematics 3, and Physics 23 or 24, the latter being

recommended for those going on in physical chemistry. *Elective for Juniors with the consent of the instructor. First semester.*

42. PHYSICAL CHEMISTRY. Professor KROPF. 3 credit hrs.

A continuation of Chemistry 41. Three hours of lectures and discussions per week. Requisite: Chemistry 41. *Elective for Juniors. Second semester.*

46. PHYSICAL CHEMISTRY LABORATORY. 3 credit hrs.

Professor KROPF.

Experimental studies designed to illustrate the principles discussed in Chemistry 41-42. Two afternoons a week. Requisite: Chemistry 41 and concurrent registration in Chemistry 42. *Elective for Juniors. Second semester.*

43. ORGANIC CHEMISTRY. Professor WHITNEY. 3 credit hrs.

General theory of organic chemistry, preparation of typical organic compounds, and introduction to organic qualitative analysis. The chemistry of the most important functional groups only is studied in this course. Three hours classroom and four hours laboratory work per week. Requisite: Chemistry 24 or 25. *Elective for Juniors. First semester.*

44. ORGANIC CHEMISTRY. Professor WHITNEY. 4 credit hrs.

A continuation of Chemistry 43. Requisite: Chemistry 43. *Elective for Juniors. Second semester.*

71-72. MOLECULAR STRUCTURE

AND REACTION MECHANISM.

4-6 credit hrs.

The Department.

Problems in molecular structure and reaction mechanism that are common to both organic chemistry and inorganic chemistry will be covered. The course includes a theoretical unit on the nature of chemical bonding; a unit on theoretical and experimental chemical kinetics; a unit on the mechanisms of substitution reactions, dealing first with carbon centers, then showing how the ideas can be generalized to other reaction sites; a unit on the physical and chemical methods for determination of molecular structure; and a unit on the mechanisms of rearrangement reactions. The laboratory work during the first semester of the course will encourage the student to integrate techniques from his inorganic, organic and physical laboratory experience by applying them to a series of chemical problems. 2 hours lecture per week in each semester and 6 hours laboratory per week in the first semester (four hours credit first semester, 2 hours credit second or two hours each semester without the laboratory). Requisite: Chemistry 41, 42, 43 and 44. *Elective for Seniors.*

73. QUALITATIVE ORGANIC CHEMISTRY. 4 credit hrs.

Professor SILVER.

A continuation of the study of organic chemistry, with emphasis on the laboratory identification and characterization of organic compounds. Two hours classroom and six hours laboratory work per week. Requisite:

Chemistry 44. *Elective for Seniors, with the consent of the instructor. First semester. (Omitted 1961-62.)*

79. HONORS COURSE. The Department. 2-6 credit hrs.
Elective for honors candidates, and for others with the consent of the Department.

80. HONORS COURSE. The Department. 6 credit hrs.
Elective for honors candidates, and for others with the consent of the Department.

Classics

Professor MOORE; Associate Professors GOULD* and PARRY;
 Messrs. DOLIN, KING-FARLOW, and MARSHALL.

Note: All courses offered by the Department which are numbered 4 or higher may be used to satisfy the sophomore humanities requirement.

All courses offered by the Department may be counted toward a major except those numbered 1 and 2. A major may be entirely in Greek or entirely in Latin and will then consist of eight semester courses, two of which may be in related fields. A major in Classics will consist of eight semester courses in the Classics, which may be divided in any proportion between Greek and Latin, except that not less than two may be taken in either language. Every *rite* student majoring in the Classics Department, whether in Classics, Greek, or Latin, will write a comprehensive examination in the spring of his senior year. This examination will in general resemble the honors examination described below, except that of course there will be no questions specifically on the candidate's honors work.

Honors may be awarded to those candidates who major in Greek or in Latin or in Classics and who take eight semester courses in the Department. Every honors candidate must include in his program those courses numbered 41, 42, 79 and 80 in either Greek or Latin. He must submit a long essay (6000-7000 words) on some topic connected with his honors work and approved by the Department. He must have read extensively in Greek or Latin literature or both. He must also read independently, i.e., not as a part of the work in a course, approximately 50 pages of some Greek or Latin text selected with the approval of the Department. Early in May he will be given a written examination covering: a) his honors work; b) his reading in the Classical literatures. The emphasis in this examination will be on the literary and historical interpretation of major authors; there will be considerable latitude of choice between various optional questions. The award of honors will be determined by the quality of the candidate's work in his courses, of his essay, and of his performance in the general examination.

The Department will cooperate with other departments in giving combined majors with honors.

* Absent on leave 1961-62.

The statement of requisites given below is intended only to indicate the degree of preparation necessary for each course, and exceptions will be made in special cases.

23. CLASSICAL CIVILIZATION. Professor MOORE. 3 credit hrs.

(Same course as History 23.) A study of the civilization of Greece from Homer to Alexander and its contribution to the civilization of the West. Readings from Greek literature will be included among the materials of the course. No knowledge of the ancient languages is required. Three hours of classroom work per week. *Elective for Sophomores. First semester. (Omitted 1961-62; will be offered in 1962-63.)*

24. CLASSICAL CIVILIZATION. Mr. MARSHALL. 3 credit hrs.

(Same course as History 24.) A study of Roman civilization and its contribution to the civilization of the West. Readings from Latin literature will be included among the materials of the course. No knowledge of the ancient languages is required. Three hours of classroom work per week. *Elective for Sophomores. Second semester.*

53. PLATO AND ARISTOTLE. Mr. KING-FARLOW 4 credit hrs.

(Same course as Philosophy 53.) Several major works by each of these philosophers will be read in their entirety and discussed in class. The chief aim of the course will be to achieve a comprehension of the major philosophical positions of these writers, though some attention will also be paid to the historical developments, the antecedents, and the subsequent influence of their ideas. All readings will be in English. Three class hours per week. *Elective for Juniors. Limited to twenty-five students. First semester.*

Greek

1. INTRODUCTION TO THE GREEK LANGUAGE. 4 credit hrs.

Mr. MARSHALL.

Five class meetings per week. *Elective for Freshmen. First semester.*

1S. INTRODUCTION TO THE GREEK LANGUAGE. 4 credit hrs.

Mr. MARSHALL.

Elective for Freshmen. Second semester. This course may be taken only with the consent of the Department. Students interested should consult a representative of the Department.

2. INTRODUCTION TO THE GREEK LANGUAGE. 4 credit hrs.

Mr. MARSHALL.

A continuation of Greek 1. Plato's *Apology* will be read. Requisite: Greek 1 or its equivalent. Five class meetings per week. *Elective for Freshmen. Second semester.*

3. THE ILIAD. Professor MOORE. 4 credit hrs.

Requisite: Greek 1 and 2 or their equivalent. Four class meetings per week. *Elective for Freshmen. First semester.*

1. THE ODYSSEY. Mr. DOLIN. 4 credit hrs.
 Requisite: Greek 3 or its equivalent. Three class meetings per week. *Elective for Freshmen; quasi seminar course, limited to twenty-five students. Second semester.*
5. DIALOGUES OF PLATO. Mr. DOLIN. 4 credit hrs.
 One long or two shorter dialogues will be read. Requisite: Greek 3 or its equivalent. Three class meetings per week. *Elective for Freshmen; quasi seminar course, limited to twenty-five students. First semester.*
6. GREEK TRAGEDY. Professor PARRY. 4 credit hrs.
 Aeschylus' *Prometheus* and Sophocles' *Oedipus Tyrannus*. Requisite: Greek 3 or its equivalent. Three class meetings per week. *Elective for Freshmen; quasi seminar course, limited to twenty-five students. Second semester.*
21. READINGS IN GREEK LITERATURE OF THE FIFTH CENTURY. Professor PARRY. 4 credit hrs.
 Requisite: Greek 5 or 6. *Elective for Sophomores; quasi seminar course, limited to twenty-five students. First semester.*
22. READINGS IN GREEK LITERATURE OF THE FIFTH CENTURY. Professor MOORE. 4 credit hrs.
 Requisite: Greek 5 or 6. Three class meetings per week. *Elective for Sophomores; quasi seminar course, limited to twenty-five students. Second semester.*
- 41, 42. ADVANCED READINGS IN GREEK LITERATURE.
 Professors PARRY, MOORE 4 credit hrs.
 The authors read in these courses vary from year to year, the selection being made according to the interests and needs of the students. Examples: Plato's *Republic* and Aristotle's *Ethics*; lyric poetry, including Pindar and Bacchylides; Demosthenes and Thucydides; the writers of the Archaic Period. (In 1961-62 the fall semester will be devoted to the development of Greek prose from Herodotus to Demosthenes; the spring semester to Greek lyric poetry.) Requisite: Greek 6. *Seminar course; elective for Juniors. First and second semester.*
- 79, 80 SENIOR HONORS COURSE. 6 credit hrs.

Latin

1. INTRODUCTORY COURSE. 4 credit hrs.
 A rapid introduction to the Latin language, leading directly into Latin 4. Five class meetings per week. *Elective for Freshmen. First semester. This course may be taken only with the consent of the Department. Students interested should consult a representative of the Department.*

18. INTRODUCTORY COURSE.

4 credit hrs.

A rapid introduction to the Latin language. *Elective for Freshmen. Second semester. This course may be taken only with the consent of the Department. Students interested should consult a representative of the Department.*

3. INTERMEDIATE COURSE. Mr. DOLIN.

4 credit hrs.

Review of Latin grammar; selections from Latin prose and poetry. Requisite: Latin 1-2, or two or three entrance units in Latin. Five class meetings per week. *Elective for Freshmen. First semester.*

4. MEDIAEVAL LATIN. Mr. DOLIN.

4 credit hrs.

Readings in the literature of the Latin Middle Ages. Requisite: Latin 3, or three entrance units in Latin. Three class meetings per week. Quasi seminar course. *Elective for Freshmen. Limited to twenty-five students. Second semester. This course may be elected only with the consent of the Department. Students interested should consult a representative of the Department.*

5. CICERO'S PRO CAELIO; SELECTIONS

FROM CATULLUS. Mr. MARSHALL.

4 credit hrs.

Attention will be given to Cicero and Catullus as literary artists, and as interpreters of the society of the late Republic. Requisite: Latin 4, or four entrance units in Latin. Three class meetings per week. *Elective for Freshmen; quasi seminar course, limited to twenty-five students. First semester.*

6. HORACE. Mr. DOLIN.

4 credit hrs.

Requisite: Latin 4 or 5, or four entrance units in Latin. Three class meetings per week. *Elective for Freshmen; quasi seminar course, limited to twenty-five students. Second semester.*

21. OVID. Professor HUMPHRIES.

4 credit hrs.

Requisite: Latin 5 or 6. Three class meetings per week. *Elective for Sophomores; quasi seminar course, limited to twenty-five students. First semester.*

22. LUCRETIUS. Professor PARRY.

3 credit hrs.

A large part of the *De rerum natura* will be read. Consideration will be given to the philosophical tradition and to the development of Latin poetic style. Requisite: Latin 5, 6, or 21. Three class meetings per week. *Elective for Sophomores. Second semester.*

27. LATIN POETRY: LYRIC AND PASTORAL.

2 credit hrs.

Professor PARRY.

(Same course as English 27.)

Intended for students of literature who wish to acquire some knowledge of the tradition of Latin poetry. Poems of Catullus, Horace, and Virgil will be read and interpreted from a literary point of view, and attention will be paid to similar poems in English. Students must have some knowledge of Latin and some familiarity with poetry. Two hours of classroom

work per week. *Elective for Sophomores. First semester. Limited to fifteen students. Those interested should obtain the consent of the instructor.*

28. VIRGIL'S AENEID. Professor MOORE. 4 credit hrs.

At least three books will be read in Latin with close attention to the text, and the whole poem will be studied in translation. The emphasis of the course will be on Virgil's poem as a work of literature and as an expression of classical civilization. Requisite: Latin 5 or 27 or the consent of the instructor. Three regular class meetings per week; a fourth meeting for students who may need special help with the language. Quasi seminar course. *Elective for Sophomores. Limited to twenty-five students. Second semester.*

41, 42. ADVANCED READINGS IN LATIN LITERATURE.

Mr. MARSHALL.

4 credit hrs.

The authors read in these courses vary from year to year, the selection being made according to the interests and needs of the students. Examples: Livy and Tacitus; Roman Satire; Roman Comedy; Propertius and Tibullus; Cicero's philosophical works. (In 1961-62 the fall semester will be given to a comprehensive study of Virgil's works; the spring semester to readings in Cicero's correspondence.) Requisite: Latin 21 and 22. Three class meetings per week. *Elective for Juniors; seminar course. First and second semesters.*

79, 80. SENIOR HONORS COURSE.

6 credit hrs.

Dramatic Arts

Professors McGOUN* and ROGERS; Associate Professor BOUGHTON;
Messrs. GANZER and SUGG.

Note. Majors: Students majoring in Dramatic Arts must complete Dramatic Arts 23, 25, 26, 43, 44, and either 71, 72 or 79, 80.

Courses in other departments recommended for major students: English 25, 26, 41; Fine Arts 23, 24, 25; French 29, 43, 44; Music 46; Theater 37a, 37b (Smith).

Honors: Honors projects may be developed in consultation with members of the department.

Dramatics 23 or 23S may be used in satisfaction of the sophomore humanities requirement and will be prerequisite for all other courses in the department.

A comprehensive examination on dramatic literature in its historical context and its expression through the theater arts will be required of all majors.

23. INTRODUCTION TO THE THEATER ARTS. 3 credit hrs.

Professors BOUGHTON and ROGERS; Messrs. GANZER and SUGG.

A consideration of the materials of creative expression in drama. An

* Absent on leave 1961-62.

investigation into the arts of the theater. Three hours of classroom work per week. *Elective for Sophomores. First semester.*

23S. INTRODUCTION TO THE THEATER ARTS. 3 credit hrs.
(Same as Dramatic Arts 23.) *Second semester.*

25. BACKGROUNDS OF THE MODERN DRAMA. 3 credit hrs.
Mr. SUGG.

The origins and development of the drama from the Greeks to the 18th century. Requisite: Dramatic Arts 23 or 23S. Three hours of classroom work per week. *Elective for sophomores. First semester.*

26. MODERN DRAMA. Mr. SUGG. 3 credit hrs.
18th century to the present. Requisite: Dramatic Arts 23 or 23S. Three hours of classroom work per week. *Elective for Sophomores. Second semester.*

43. PRINCIPLES OF DRAMATIC PRODUCTION. 3 credit hrs.
Professors BOUGHTON and ROGERS; Mr. GANZER.

A study of directing, acting, scene design and stage lighting considered as instruments of dramatic interpretation. Requisite: Dramatic Arts 23 or 23S. Three hours classroom work per week. *Elective for Juniors. First semester.*

44. PRINCIPLES OF DRAMATIC PRODUCTION. 3 credit hrs.
Professors BOUGHTON and ROGERS; Mr. GANZER.

Continuation of Dramatic Arts 43. Requisite: Dramatic Arts 43. Three hours of classroom work per week. *Elective for Juniors. Second semester.*

71. ADVANCED STUDY. The Department. 4 credit hrs.

Advanced work in one of the following fields of Dramatic Arts: Directing, Scene Design, Stage Lighting. Classroom meetings, reports and conferences. Limited to 15 students. *Elective for seniors with the consent of the department. First semester.*

72. ADVANCED STUDY. The Department. 4 credit hrs.

Continuation of Dramatic Arts 71. *Elective for Seniors with the consent of the Department. Second semester.*

79. CONFERENCE COURSE. The Department. 4-8 credit hrs.

Conference course for students majoring in Dramatic Arts. Selected topics of study. *Elective for Seniors with the consent of the Department. Required of candidates for honors. First semester.*

80. CONFERENCE COURSE. The Department. 4-8 credit hrs.

Continuation of Dramatic Arts 79. *Elective for Seniors with the consent of the Department. Required of candidates for honors. Second semester.*

Economics

Professors NELSON, ROSS, TAYLOR, THORP*, and WARNE†; Associate Professor COLLERY; Assistant Professor KÖHLER; Mr. KLEINBERG.

The following courses are required for a major in Economics:

Rite Students: Economics 21, 43, (66 or 70), 73, 74.

Honor Students: Economics 21, 43, (66 or 70), 79, 80.

Each candidate for a degree in Economics will be examined by the Department on his work in Economics, and on the contents of his thesis, at the close of his senior year.

18. INTRODUCTION TO THE ANALYSIS OF ECONOMIC PROBLEMS.

1 credit hr.

A course designed to acquaint the student with the major approaches of economists to questions of economic policy and analysis. Primarily offered for those who will be unable to enroll in Economics 21.

Elective for Seniors. Second semester.

21. AN INTRODUCTION TO ECONOMICS.

4 credit hrs.

Professors COLLERY and KÖHLER; MR. KLEINBERG.

A study of the central functions and problems of an economic system, of the principles and practices of our own economy, and of other forms of economic organization and control. One lecture and three hours of discussion each week. Prerequisite or corequisite for all other courses in economics, except Economics 18. *Elective for Sophomores. First semester.*

21S. AN INTRODUCTION TO ECONOMICS.

4 credit hrs.

Professors NELSON, COLLERY and KÖHLER; MR. KLEINBERG.

Same description as above. *Elective for Freshmen. Second semester.*

24. THE AMERICAN ECONOMY. Professor NELSON.

4 credit hrs.

An examination of the structure and operation of the economic system of the United States, with particular emphasis upon the different types of markets and industrial structures, the role and behavior of the price mechanism, the evolution of public policies, and selected current economic issues. Two lectures and two hours of discussion each week. Requisite: Economics 21. *Elective for Sophomores. Second semester.*

41. COMPARATIVE ECONOMIC SYSTEMS.

4 credit hrs.

Professor WARNE.

A study and comparison of the principal types of economic systems with special emphasis upon the position of labor in each. Requisite or corequisite: Economics 21. Four lectures each week. *Elective for Sophomores. First semester.*

* Absent on leave second semester.

42. LABOR ECONOMICS. Professor WARNE. 4 credit hrs.

A survey of the position of labor in our modern economy and of the development and status of labor legislation and social security measures. Three lectures and one hour of discussion each week. Requisite or corequisite: Economics 21. *Elective for Sophomores. Second semester. (Omitted 1961-62.)*

43. MONEY, BANKING, AND NATIONAL INCOME. 4 credit hrs.

Professors COLLERY and KÖHLER.

A study of money and finance and their relation to the functioning of an economic system. An introduction to the theory of income determination with an indication of the role that money and finance play in the determination of employment, production and prices. Requisite: Economics 21 or the permission of the Department. *Elective for Sophomores. First semester.*

44. PUBLIC FINANCE AND BUSINESS CYCLES. 4 credit hrs.

Professor THORP.

An analysis of the nature and causes of business fluctuations and of their economic and social effects. A study of taxing, spending and debt policies of government units and their relationship to both business fluctuations and long-run behavior of the economic system. Requisite: Economics 21. *Elective for Juniors. Second semester.*

45. ECONOMIC STATISTICS. Professor ROSS. 4 credit hrs.

A study of the sources of quantitative economic data, with special emphasis on the application of statistical methods to economic problems. Three lectures and two hours of laboratory work each week. Requisite: Economics 21. *Elective for Juniors: limited to twenty-five students. First semester.*

46. ACCOUNTING. Professor ROSS. 4 credit hrs.

A study of the principles of accounting as related to corporate finance, and elementary investment analysis. Extensive work with actual corporate material. Requisite: Economics 21. *Elective for Juniors majoring in Economics: limited to 25 students. Second semester.*

Section B.

A study of the principles of accounting as related to economic analysis. Attention will be given to the use of accounts by persons and corporations and the application of accounting techniques to the study of national wealth and income, balance of payments, input-output tables, and flow of funds. Requisite: Economics 21. *Elective for Juniors majoring in Economics. Second semester. (Omitted 1961-62.)*

51. MONOPOLY REGULATION. Professor NELSON. 3 or 4 credit hrs.

The theory of monopoly pricing and of price discrimination; objectives and methods of public control of prices, profits, and service by public utilities and transportation agencies. Requisite: Economics 21. *Elective for Juniors. First semester.*

54. INTERNATIONAL ECONOMIC POLICY.

4 credit hrs.

Professor THORP.

An examination into the nature of commercial, monetary, investment, and other economic problems which appear when public or private interest extends across national boundary lines, and the principles and pressures which affect their solution, with particular reference to recent American experience. Three hours of classroom work per week. Requisite: Economics 21. *Elective for Juniors. Second semester.*

55. INTRODUCTION TO MATHEMATICAL ECONOMICS
AND ECONOMETRICS.

3 credit hrs.

An introduction to linear, nonlinear, continuous dynamic, and sequence models in economics; linear programming; the statistical Leontief system; simple and multivariate regression; multiple relations. Requisites: Economics 21 and one other economics course. *Elective for Juniors. First semester. (Omitted 1961-1962.)*

63, 64. AMERICAN ECONOMIC HISTORY.

4 credit hrs.

Professor TAYLOR.

A study of economic history of the U.S., with emphasis on historical aspects of economic development. The first semester will cover the period prior to the Civil War; the second will cover from the Civil War to date. Students may take *either* or *both* semesters. One two-hour seminar each week. Requisite: Economics 21. *Elective for Juniors; limited to fifteen students.*

66. PROBLEMS OF ECONOMIC POLICY.

4 credit hrs.

Professor KÖHLER.

A study of the process of formulating and executing economic policy in the United States, based upon an intensive examination of selected cases. Some emphasis will be placed upon the application of economic analysis in policy determination. *Elective for non-majors with the consent of the Department. Second semester.*

70. THEORY OF PRICE. Professor COLLERY.

4 credit hrs.

An introduction to the theory of utility and demand; the nature of cost and the production function; diminishing returns and short-run cost curves; returns to scale and long-run cost curves; competitive pricing; the pricing of productive services; the theory of monopoly; the theory of oligopoly; cartels and unions; the distribution of income; general equilibrium. Requisite: Economics 21. *Elective for non-majors with the consent of the Department. Second semester.*

73. SENIOR RITE SEMINAR. HISTORY OF ECONOMIC

THOUGHT. Professor NELSON; MR. KLEINBERG.

4 credit hrs.

An examination of the contributions to the development of economics made by such economists as Adam Smith, David Ricardo, Karl Marx, Alfred Marshall, and Lord Keynes. Special attention will be paid to the

environmental influences on their intellectual development. *Required of senior rite majors in Economics, may be elected by senior honors majors in economics who do not enroll in Economics 79; open to other students by permission of the Department.*

74. SENIOR RITE SEMINAR. The Department. 6 credit hrs.

Preparation of a thesis on a topic approved by the department. *Required of all Seniors majoring in Economics who are not candidates for Honors. Second semester.*

79. ECONOMICS HONORS. 4 credit hrs.

Professor NELSON; MR. KLEINBERG.

A study of the development of economic thought as exemplified in the writings of a few selected economists, e.g., Smith, Ricardo, Marx, and Keynes, with emphasis placed on the analytical content. In addition to this survey several special fields of economics will be treated, e.g., the operation of the market mechanism vs. planning, the role of the rate of interest in various systems, and problems in the field of welfare economics. *Required of all Seniors majoring in Economics who are candidates for Honors. Elective for others with permission of the Department. First semester.*

80. ECONOMICS HONORS. The Department. 8 credit hrs.

Preparation of a thesis on a topic approved by the Department. *Second semester. Required of all Seniors majoring in Economics who are candidates for Honors.*

Education

Professor KENNEDY; Associate Professor GROSE and
Assistant Professors DAVENPORT and HAWKINS.*

36. THE HISTORY OF AMERICAN EDUCATION. 4 credit hrs.

Professor HAWKINS.

(Same course as History 36.) *Elective for Sophomores. Second semester. (Omitted 1961-62.)*

41S. PHILOSOPHY OF EDUCATION. 3 credit hrs.

(Same course as Philosophy 41S.) *Elective for Juniors. Second semester.*

43. EDUCATIONAL PSYCHOLOGY. Professor GROSE. 3 credit hrs.

(Same course as Psychology 43.) *Requisite: Psychology 21. Elective for Juniors with consent of the instructor; limited to fifteen students. First semester.*

47. DEVELOPMENTAL PSYCHOLOGY. 3 credit hrs.

Professor DAVENPORT.

(Same course as Psychology 47.) *Requisite: Psychology 21. Elective for Juniors. First semester.*

* Absent on leave 1961-62.

English

Professors BAIRD, BARBER, CRAIG, DEMOTT, HUMPHRIES, MARX,* and MCKEON; Assistant Professors CAMERON, HEATH, PRITCHARD and SALE; Messrs. COLES, CROWNE, and GUTTMANN.

Note: All English majors are required to elect English 21-22, English 63-64, and four other semester courses, exclusive of English 1-2, offered or approved by the English Department.

Candidates for honors in English are required to complete the following courses: English 21-22, English 25-26, English 49, English 63-64, English 70S, English 79-80. Beginning in 1961-62 senior candidates for honors should elect English 70S [3 credit hrs.], English 79 [3 credit hrs.], and in the second semester English 80 [6 credit hrs.].

English 21, 22, 25 or 26 may be taken in satisfaction of the sophomore humanities requirement.

The comprehensive examination in English, required of both majors and honors candidates, will be given in May of the senior year. It will consist of two parts.

Part I will be factual, objective, informational. Its purpose is to promote those regular habits of study through which the student of literature as a matter of course acquaints himself with such matters of fact as authors' names and dates, exact titles and dates of major works, the common varieties of verse, major literary forms, etc.

Part II will test the student's awareness of the historical development of English and American literature. It will do so by requiring him to arrange in chronological order, to date as closely as he can, and to characterize briefly with respect to their periods a number of passages in both verse and prose from the 16th century to the present. Some passages will be from works that all candidates will have read, selected from a list of required English and American books distributed at the end of sophomore year. Every candidate will be responsible for all books on the required list, whether by studying them in the courses he elects or by reading them on his own. The required list will supplement the student's own interests as a guide to his elections. Some passages of Part II will not be drawn from the required list. They will be characteristic of the periods in which they were written and will parallel in form or style contemporaneous required books, but they will be treated "at sight"—they will come from works that few candidates will be likely to have read.

The examination as a whole will ascertain whether students of American and English literature know, in the simplest and most obvious terms, where they have been and what they have been reading in their preceding semesters of study.

* Absent on leave 1961-62.

1. COMPOSITION.

2 credit hrs.

Professors BAIRD (Chairman), CAMERON, CRAIG, DEMOTT, HEATH, PRITCHARD and SALE and Messrs. COLES, CROWNE and GUTTMAN.

Three hours of classroom work per week. *Required for Freshmen. First semester.*

2. COMPOSITION.

2 credit hrs.

Professors BAIRD (Chairman), CAMERON, CRAIG, DEMOTT, HEATH, PRITCHARD and SALE and Messrs. COLES, CROWNE and GUTTMAN.

Two hours of classroom work per week. Requisite: English 1. *Required for Freshmen. Second semester.*

21. INTRODUCTION TO LITERATURE.

3 credit hrs.

Professors BARBER, CAMERON, CRAIG, DEMOTT (Chairman), HEATH, PRITCHARD and SALE and Messrs. COLES and CROWNE.

The aim of this course is to teach critical reading of literature. The material read in any one year is limited to a small number of works of prose and poetry. Required for a major in English. Alternate course in humanities sequence. Three hours of classroom work per week. *Elective for Sophomores. First semester.*

22. INTRODUCTION TO LITERATURE.

3 credit hrs.

Professors BARBER, CAMERON, HEATH, PRITCHARD (Chairman), and Messrs. COLES and GUTTMANN.

A continuation of English 21. Requisite: English 21. Required for a major in English. Alternate course in Humanities sequence. Three hours of classroom work per week. *Elective for Sophomores. Second semester.*

23. ADVANCED COMPOSITION. Professor HUMPHRIES.

4 credit hrs.

A course in disciplined writing, both prose and verse. Students are expected to work independently without specific assignments. Class discussions of manuscripts and frequent conferences with the instructor. One two-hour meeting per week. *Elective for Sophomores with the consent of the instructor; limited to fifteen students. First semester.*

24. ADVANCED COMPOSITION. Professor HUMPHRIES.

4 credit hrs.

A continuation of English 23. One two-hour meeting per week. *Elective for Sophomores with the consent of the instructor; limited to fifteen students. Second semester.*

25. SHAKESPEARE. Professor BAIRD.

3 credit hrs.

A reading of the plays in a chronological order. Emphasis on Shakespeare's development as dramatist and poet. Requisite: A grade of B in a previous English course. Alternate course in humanities sequence. Three hours of classroom work per week. *Elective for Sophomores. First semester.*

26. SHAKESPEARE. Professor BAIRD.

3 credit hrs.

A continuation of English 25. Requisite: English 25. Three hours of classroom work per week. *Elective for Sophomores. Second semester.*

27. LATIN POETRY: LYRIC AND PASTORAL. 2 credit hrs.
 Professor PARRY.
 (Same course as Latin 27.) *Elective for Sophomores. First semester.*
- 41S. THE RENAISSANCE: THE SIXTEENTH CENTURY. 4 credit hrs.
 Professor SALE.
 A study of Renaissance narrative, especially Spenser's *The Faerie Queene* and the major Elizabethan dramas. *Elective for Juniors. Second semester.*
 (Omitted 1961-62.)
42. THE RENAISSANCE: THE SEVENTEENTH CENTURY. 4 credit hrs.
 Professor CRAIG.
 A study of the poetry of Milton and of the Metaphysical Poets in relation to some religious and philosophic assumptions of the seventeenth-century writer. Three meetings per week. *Elective for Juniors. Second semester.*
43. AMERICAN LITERATURE. 3 credit hrs.
 Mr. GUTTMANN.
 A survey of American literature from the seventeenth century to 1900 with emphasis on major figures. Three hours of classroom work per week. *Elective for Juniors. First semester.*
44. AMERICAN LITERATURE. 3 credit hrs.
 Professor PRITCHARD.
 A continuation of English 43. Three hours of classroom work per week. *Elective for Juniors. Second semester.*
45. READINGS IN THE ENGLISH NOVEL. 3 credit hrs.
 Professor CAMERON.
 A study of representative works of the eighteenth and nineteenth centuries. *Elective for Juniors. First semester.*
- 49S. CHAUCER. Mr. CROWNE. 4 credit hrs.
 Chaucer's major works in the original. Four hours of classroom work per week. *Elective for Juniors, and for Sophomores who have a grade of B in English and who plan to become candidates for the degree with honors in English. Limited to twenty-five students. Second semester.*
- 50S. READINGS IN MEDIEVAL LITERATURE. 3 credit hrs.
 Professor BAIRD.
 A consideration of the structure and meaning of narrative in certain works of medieval literature. Most of the reading is in translation. *Elective for Juniors. First semester. Seminar course limited to ten students, admission with consent of the instructor.*
51. JOYCE. Professor BARBER. 4 credit hrs.
 A study of the work of James Joyce in relation to the development of culture in the first part of the twentieth century. Three hours of classroom

work per week, and one additional hour devoted to reading and discussion in small groups. *Elective for Juniors. First semester.*

52. READINGS IN TWENTIETH CENTURY POETRY. 3 credit hrs.
Professor PRITCHARD.

A study of Yeats, Eliot, Frost and Stevens. *Elective for Juniors. Second semester. (Omitted 1961-62.)*

53S. LITERATURE AND SOCIETY, 1660-1740. 3 credit hrs.
Professor DEMOTT.

A study of the prose and poetry of the Restoration and earlier eighteenth century. Principal authors will be Dryden, Swift, and Pope; some attention will be paid to lesser figures. *Elective for Juniors. Second semester.*

55. READINGS IN NINETEENTH CENTURY CONTINENTAL
FICTION. Professor DEMOTT. 3 credit hrs.

Among the authors to be read in 1961-62 will be Balzac, Stendhal, Gogol, Tolstoy, Turgenev, Dostoevski, Proust, Mann, Gide. *Elective for Juniors. First semester.*

57S. READINGS IN ROMANTIC POETRY. 3 credit hrs.
Professor HEATH

A study of selected major poets from Blake to Byron, with attention to the relevance of biographical knowledge. One two-hour meeting per week. *Seminar course limited to 15 students. Elective for Juniors. Second semester.*

62. READINGS IN MODERN FICTION. 3 credit hrs.
Professor BAIRD.

A study of some novels written in the twentieth century and a consideration of the novelist's position in modern society. Three hours of classroom work per week. *Elective for Juniors. Second semester. (Omitted 1961-1962.)*

63. ENGLISH LITERARY HISTORY. Professor BARBER. 3 credit hrs.

The development of English literature from Chaucer to Dr. Johnson. Required for a major in English. *Elective for Juniors. First semester.*

64. ENGLISH LITERARY HISTORY. Professor CRAIG. 3 credit hrs.

The development of English literature from the late eighteenth century to the early twentieth. Requisite: English 63. Required for a major in English. *Elective for Juniors. Second semester.*

65. READINGS IN AMERICAN LITERATURE. 4 credit hrs.
Professor MARX.

A study of major American writers; the particular authors considered will vary from year to year. *First semester. Seminar course limited to ten students, admission with the consent of the instructor. (Omitted 1961-62.)*

70S. AN INTRODUCTION TO LITERARY SCHOLARSHIP. Professor SALE.

3 credit hrs.

A study of the characteristics of literary knowledge as defined in the theory and practice of selected major critics and scholars. One two-hour meeting per week. *Required for Senior Honors candidates in English. Others require permission of the instructor. First semester.*

72. SEMINAR IN MODERN CRITICISM AND THE ELIZABETHAN DRAMA. Professor BARBER.

4 credit hrs.

Readings in twentieth century criticism and related writing on psychology and the philosophy of language, with projects in interpreting Renaissance drama in the light of the modern critical ideas encountered. *Limited to ten students; admission by the consent of the English Department. Second semester.*

73. CREATIVE WRITING. Professor HUMPHRIES.

2 credit hrs.

Continuation of English 23-24. An advanced course in disciplined writing, both prose and verse. Students are to work independently without specific assignments. Fortnightly individual conferences with instructor. Limited to fifteen students. Requisite: English 23-24 and the consent of the instructor. *Elective for Juniors. First semester.*

74. CREATIVE WRITING. Professor HUMPHRIES.

2 credit hrs.

Continuation of English 73. Limited to fifteen students. Requisite: English 73 and consent of the instructor. *Elective for Juniors. Second semester.*

79-80. CONFERENCE COURSE. The Department.

6 credit hrs.

Elective for Seniors.

Fine Arts

Professors C. MORGAN and ROGERS; Associate Professor TRAPP; Mr. SERENYI

Note: A major in fine arts consists of six semester courses in the department, including Fine Arts 23 or 26 and Fine Arts 25 or 25S and two semester courses in allied fields. Honors in fine arts will include the foregoing with the addition of Fine Arts 79-80. Fine Arts 25 or 25S is normally the prerequisite for all advanced courses in the historical aspect of the subject except for Fine Arts 42; and Fine Arts 23 or 26 is normally the prerequisite for all advanced courses in the technical aspects of the field.

In view of the diversity of elections within the major and the opportunity of applying credit for courses taken at neighboring institutions towards the fulfillment of the major, the Fine Arts Department will devise comprehensive examinations appropriate to the course elections of the individual student.

Fine Arts 25 or 25S may be used in satisfying the Sophomore humanities requirement.

23. ELEMENTARY TECHNIQUE AND DESIGN. 3 credit hrs.

Professor ROGERS.

Design, composition and line and form drawing in pencil, charcoal, crayon, pen and ink, and chalk. One lecture and two two-hour laboratory periods per week. No previous training required. *Elective for Sophomores. First semester.*

24. WATERCOLOR. Professor ROGERS. 3 credit hrs.

Elementary color theory and technique of water color painting. Requisite. Fine Arts 23 or the consent of the instructor. One lecture and two two-hour laboratory periods per week. *Elective for Sophomores. Second semester.*

25. SURVEY OF THE HISTORY OF ART. 3 credit hrs.

Professor MORGAN and Mr. SERENYI

The development of the major arts from the earliest time to the present day, with a special emphasis on the manner in which they reflect the successive civilizations that produced them. Three hours of classroom work per week. *Elective for Sophomores. First semester.*

Students in this course interested in applying some of its principles in the form of gallery problems and elemental drawing may elect an additional one-to-two hour section for one additional credit hour, a total of four credit hours for the course.

25S. INTRODUCTION TO THE HISTORY OF ART. 3 credit hrs.

Professor TRAPP.

A topical examination of works of painting, sculpture and architecture selected from a variety of contexts intended to develop the student's ability to respond to the individual work of art in critical, as well as historical terms. Three hours of classroom work per week. *Elective for Sophomores. Second semester.*

26S. INTRODUCTORY STUDIO. Professor TRAPP. 2 credit hrs.

A series of projects in drawing and design to introduce fundamental problems of description, organization, and artistic expression. These projects will relate to selected topics in art history, with the aim of correlating creative experience with history and criticism. Various drawing mediums and oil painting will be introduced. One three-hour class period per week, plus outside reading and practice assignments. No prior studio experience is required or special talent expected. *Elective for Sophomores. First semester.*

41. MAJOR ARCHITECTURAL DEVELOPMENTS FROM THE MIDDLE AGES TO MODERN TIMES. 3 credit hrs.

Mr. SERENYI.

A careful consideration of the major styles and examples of European architecture from the 10th to the 20th centuries. Particular attention is given to the interpretation of architectural imagery as a reflection of the human concerns of a given period. Three hours of classroom work per week. *Elective for Juniors. First semester.*

42. FOUR GREEK SITES. Professor C. MORGAN. 3 credit hrs.

A study of Athens, Corinth, Delphi and Olympia with especial reference to their development and their contribution to the art and culture of classical civilization. Three hours of classroom work per week. *Elective for Juniors. Second semester.*

43S. RENAISSANCE ART. Mr. SERENYI. 3 credit hrs.

A selective examination of the form and content of European art from the early 15th to the end of the 16th centuries, with emphasis upon the major artists of Italy. Two one-hour lectures and two conference sessions per week. Requisite: Fine Arts 25 or 25S, or permission of the instructor. *Elective for Juniors. Second semester.*

45S. AMERICAN ART. Professor C. MORGAN. 3 credit hrs.

American architecture, sculpture and painting in America from the 17th century to the present day. Three hours of classroom work per week. *Elective for Juniors. Second semester.*

48. OIL PAINTING. Professor TRAPP. 2 credit hrs.

A series of studio projects exploring a variety of techniques and forms of expression in oil painting. Relationship with master works will be considered where relevant, but the emphasis will increasingly stress the development of the student's individual powers of observation and interpretation. Two two-hour studio periods per week. Requisite: Fine Arts 23 or 26 or permission of the instructor. *Elective for Juniors. Second semester.*

49. MICHELANGELO. Professor C. MORGAN. 1 credit hr.

A study of the artist, his works and his background. One lecture a week and reading. *Elective for Juniors. Second semester. (Omitted 1961-62.)*

50S. BAROQUE AND ROCOCO ART. Professor TRAPP. 2 credit hrs.

A study of major figures and movements in European art of the 17th and 18th centuries. Two hours of classroom work plus outside reading and written assignments. Requisite: Fine Arts 25 or 25S or permission of instructor. *Elective for Juniors. First semester.*

55. PROBLEMS IN MODERN EUROPEAN ART. 3 credit hrs.
Professor TRAPP.

A selected examination of major figures and movements in the development of European painting from Romanticism to the present, with emphasis upon problems in criticism. Two one-hour lecture periods per week and one weekly afternoon meeting of approximately two hours for discussion, seminar presentation of elementary studio exercises relating to the classroom lectures and discussion. No previous studio experience is required or any special talent expected. Outside reading and written assignments. Prerequisite: Fine Arts 25 or 25S, or permission of the instructor. *Elective for Juniors. First semester.*

56. PROBLEMS IN MODERN ARCHITECTURE. 3 credit hrs.
Mr. SERENYI.

An interpretive study of the nature and meaning of European and American architecture of the 19th and 20th centuries, with special reference to more recent developments. The course will chiefly be concerned with relating architecture to the historical, social and philosophical currents of modern times. Two one-hour lectures and one seminar session per week. Prerequisite: Fine Arts 25 or 25S, or permission of the instructor. *Elective for Juniors. Second semester.*

- 79, 80. SPECIAL STUDIES FOR STUDENTS MAJORING IN
FINE ARTS. 4 credit hrs.

French

Professors FRENCH, FUNNELL, and TURGEON; Associate Professor GIORDA-
NETTI; Mr. JOSEPHS

Assistants: Mrs. CANNON AND Messrs. BARRÉ, KOUSNETZOFF, and MONIN

Note: All rite majors in French are required to elect 30 semester hours of courses offered or approved by the department, including French 7 and 8, but excluding French 1 and 3. All honors candidates are required to elect courses 7 or 8, 10 or 12, 43, 44, 49, 50, 79 and 80. This course program may be adjusted in certain cases. Honors candidates must present a thesis and pass a comprehensive examination in the history of French literature since 1500 and in the critical interpretation of texts. Beginning with the class of 1962 all majors must pass the comprehensive examination. A reading list will be furnished to aid in preparation for the examination.

A combined major in two languages may be arranged by consultation with the department. For a student whose primary foreign language is French, the major must include twenty credit hours in French exclusive of French 1 and 3; in the second language it must include ten hours, of which at least three must deal with literature. A comprehensive examination covering both fields will be given. A reading list will be made up to suit individual cases to aid in the preparation for the examination.

Requirements for Sophomores in Humanities. The following courses are approved as satisfying the Humanities requirement in sophomore year: any course numbered above 5, except French 10, 12, 21 and 22.

1. ELEMENTARY COURSE. 4 credit hrs.
Professor TURGEON and assistants.

Grammar, pronunciation, oral practice. Three hours per week for explanation and demonstration, four hours per week in small sections and laboratory for oral practice. *Elective for Freshmen. First semester.*

3. INTERMEDIATE COURSE. 4 credit hrs.
Professor TURGEON; Mr. JOSEPHS and assistants.

Review of grammar and pronunciation; oral practice. Reading and

analysis of selected texts. Three hours per week for explanation and demonstration, three hours per week in small sections and laboratory for drill in aural comprehension of the language. *Elective for Freshmen. First semester.*

3S. INTERMEDIATE COURSE.

4 credit hrs.

Professor TURGEON and assistants.

Same description as above. *Elective for Freshmen. Second semester.*

5. ADVANCED COURSE.

4 credit hrs.

Professor GIORDANETTI; Mr. JOSEPHS and assistants.

The purpose of this course is to complete the student's training in fluent reading and in oral comprehension. Reading of significant fiction and plays from the modern period. Three hours per week in class and three hours per week in small sections and laboratory for oral and aural drill. For those whose linguistic preparation is sufficient, there will be a special section in which more stress will be put on the reading as literature. Conducted as far as possible in French. *Elective for Freshmen. First semester.*

5S. ADVANCED COURSE. Mr. JOSEPHS and assistants.

4 credit hrs.

Same description as above. *Elective for Freshmen. Second semester.*

7. INTRODUCTION TO FRENCH LITERATURE BEFORE THE REVOLUTION. Professor FUNNELL.

4 credit hrs.

Reading and discussion of selected texts. Requisite: Satisfaction of the language requirement. Four hours of classroom work per week. *Elective for Freshmen. First semester.*

8. INTRODUCTION TO FRENCH LITERATURE SINCE THE REVOLUTION. Professor FUNNELL.

4 credit hrs.

Reading and discussion of selected texts. Requisite: satisfaction of the language requirement. Four hours of classroom work per week. *Elective for Freshmen. Second semester.*

10. INTERMEDIATE COMPOSITION AND CONVERSATION.

Mr. JOSEPHS and Mrs. CANNON.

4 credit hrs.

A review of French grammar with practice in set translation and free composition; oral reports on selected topics. Three hours per week of composition and two of oral practice. Requisite: Satisfaction of the language requirement in French. May not be elected after French 12. *Elective for Freshmen. Second semester.*

12. ADVANCED COMPOSITION AND CONVERSATION.

Professor GIORDANETTI and Mrs. CANNON.

4 credit hrs.

Practice in free composition and in set translation of examples of a variety of styles; oral reports on selected topics. Three hours per week of composition and two of practice in conversation. Requisite: French 10 or permission of the instructor. *Elective for Sophomores, and for Freshmen with permission of the instructor. Second semester.*

17. READINGS IN THE FRENCH NOVEL. Mr. JOSEPHS. 3 credit hrs.
The reading will include at least one novel each by Balzac, Stendhal and Flaubert, with others, as time permits, chosen from the eighteenth and later nineteenth centuries. This course will be conducted partially in French. Requisite: satisfaction of the language requirement. Three hours of classroom work per week. *Elective for Freshmen. First semester.*

18. TYPES OF MODERN LITERATURE. Mr. JOSEPHS. 4 credit hrs.
An introductory literature course with emphasis on the study of types: novel, short story, theatre, poetry. Class examination of each type will be followed by study of other examples of the type done independently. Lectures and discussion groups. Conducted in French. Requisite: satisfaction of the language requirement. *Elective for Freshmen. Second semester.*

18S. TYPES OF MODERN LITERATURE. 4 credit hrs.
Professor GIORDANETTI.

Same description as above. *Elective for Freshmen. First semester.*

21, 22. READING COURSE. 4 credit hrs.
Professors FUNNELL and TURGEON.

A year course open to those who have already satisfied their language requirement in another language and who desire a reading knowledge of French. Four hours of classroom work per week. *Elective for Sophomores. First and second semesters.*

25S. FRENCH LYRIC POETRY. Professor FUNNELL. 2 credit hrs.
Medieval lyrics; poems by François Villon, Ronsard, du Bellay and Chénier; the chief Romantic and Parnassian poets of the nineteenth century. Requisite: French 7, 8, 17 or 18. Two hours of classroom work per week. *Elective for Sophomores. Second semester in alternate years.*

27S. READINGS IN THE TWENTIETH CENTURY NOVEL. 3 credit hrs.
Professor GIORDANETTI.

Readings from the novels of such authors as Colette, Romain, Mauriac, Malraux, Sartre and others, but excluding Gide and Proust. The course will be conducted partially in French. Requisite: French 7, 8, 17 or 18. Two hours of classroom work per week. *Elective for Sophomores; limited to fifteen students. Second semester.*

29. FRENCH DRAMA SINCE 1890. Professor TURGEON. 3 credit hrs.
A survey of the principal trends in the modern theater with extensive readings from such authors as Claudel, Romain, Giraudoux, Anouilh, and Sartre. Requisite: French 7, 8, 17 or 18. Two hours of classroom work per week. *Elective for Sophomores; limited to fifteen students. First semester in alternate years.*

41. SPECIAL TOPICS IN FRENCH LITERATURE. 1-3 credit hrs.
The Department.

In this course a student will work individually with one member of the department on an approved subject. In general authors dealt with

in other advanced courses in French will not be approved for work in this course. The amount of credit to be given for the work will be settled in advance in consultation between the student and the Department. Requisite: French 7, 8, 17 or 18, and consultation with, and the approval of, the Department. *Elective for Juniors. First semester.*

42. SPECIAL TOPICS IN FRENCH LITERATURE. *1-3 credit hrs.*
The Department.

Description and requisites as for course 41. *Elective for Juniors. Second semester.*

43. FRENCH CLASSIC TRAGEDY—CORNEILLE AND RACINE.
Professor TURGEON. *4 credit hrs.*

A study will be made of the history of the French theater in the seventeenth century and of the development and theory of classic tragedy, with detailed analysis of the principal tragedies of Corneille and Racine. Requisite: French 7, 8, 17 or 18. Three hours of classroom work per week. *Elective for Juniors and, with the consent of the instructor, for Sophomores; limited to twenty-five students. First semester in alternate years. (Omitted 1961-62.)*

44. FRENCH CLASSIC COMEDY—MOLIÈRE. *4 credit hrs.*

A detailed study of the principal comedies of Molière, and of the comic spirit as exemplified in LaFontaine and Boileau. Requisite: French 7, 8, 17 or 18. Three hours of classroom work per week. *Elective for Juniors and, with the consent of the instructor, for Sophomores; limited to twenty-five students. Second semester in alternate years. (Omitted 1961-62.)*

48. POETRY SINCE BAUDELAIRE. Professor FUNNELL. *2 credit hrs.*

Baudelaire, the Symbolists, a few prominent poets of the twentieth century. Requisite: French 7, 8, 17 or 18. Two hours of classroom work per week. *Elective for Juniors and, with the consent of the instructor, for Sophomores. Second semester in alternate years. (Omitted 1961-62.)*

49. FRENCH LITERATURE OF THE RENAISSANCE. *4 credit hrs.*
Professor FRENCH.

Readings in Rabelais, Montaigne and the poets of the 16th century. Requisite: French 7, 8, 17 or 18. Three hours of classroom work per week. *Elective for Juniors and, with the consent of the instructor, for Sophomores; limited to twenty-five students. First semester in alternate years.*

50. FRENCH LITERATURE OF THE EIGHTEENTH CENTURY.
Professor GIORDANETTI. *4 credit hrs.*

Voltaire, Diderot and Rousseau. Requisite: French 7, 8, 17 or 18. Three hours of classroom work per week. *Elective for Juniors and, with the consent of the instructor, for Sophomores; limited to twenty-five students. Second semester in alternate years.*

51. ANDRÉ GIDE. Professor GIORDANETTI. *1 credit hr.*
Requisite: French 7, 8, 17 or 18. One hour of classroom work per week.
Elective for Juniors and, with the consent of the instructor, for Sophomores.
First semester in alternate years. (Omitted 1961-62.)
53. MARCEL PROUST. Professor GIORDANETTI. *1 credit hr.*
Requisite: French 7, 8, 17 or 18. One hour of classroom work per week.
Elective for Juniors and, with the consent of the instructor, for Sophomores.
First semester in alternate years.
79. CONFERENCE COURSE FOR SENIORS. *4-6 credit hrs.*
First semester.
80. CONFERENCE COURSE FOR SENIORS. *4-6 credit hrs.*
Second semester.

Geology

Professor BAIN; Associate Professor BROPHY; Assistant Professor RESO.

Note: A major in geology consists of twelve semester hours in related subjects approved by the Department and twenty semester hours in geology which are divided into three blocks and arranged to make a sequence. Eight semester hours of Geology 21, and Geology 22, are fundamental. An additional 8 semester hours are essential to progress into an advanced field of geology. Four semester hours in an advanced field are required for a sequence. Science 21-22 are considered related subjects. Other related courses will be from that field of biology, chemistry, economics, mathematics or physics, advantageous to satisfactory progress in the advanced field selected for a major study.

The Department offers five sequences leading to a major in Geology. The sequences, and appropriate advanced subjects, are mineral studies (45), structural geology (79), geology of sedimentary rocks (44), geography of material resources (46) and paleontology (49 or 56).

A student may declare his intention to major at any time up to the end of his sixth semester. At that time he should have completed, or have arranged to complete, courses which will enable him to examine independently most problems in the field of his sequence.

The comprehensive examination in Geology shall be a written examination not to exceed five hours in length. The examination is divided into two parts. Part I, of three hours duration, will encompass those subjects considered to form a basis of knowledge in the science. Part II, of two hours duration, will consider the major phase of the science elected by the student, and will include the ancillary courses.

A student may, upon application to the department, substitute the Graduate Record Examination for the Department Comprehensive Examination. Such arrangement should be completed at the start of the senior year.

Candidates for the degree with honors must have completed a sequence by the end of their seventh semester, except in the instance of the geography sequence, and undertake a program of individual study as part of Geology 80. Geology 46 may be taken concurrently with Geology 80 for students electing the geography sequence.

Attention of students intending to proceed to graduate school is drawn to the requirements by many institutions that an applicant take the graduate record examination and that the candidate for an advanced degree have a reading knowledge of two modern languages from the group French, German, and Russian. A thorough knowledge of Geology 21-22, 23-24 will afford coverage for 85% of the graduate record examination, and should be completed with a grade of B before applying to take this test.

21. PRINCIPLES OF GEOLOGY. Professor BROPHY. 4 credit hrs.

An introductory study of the historical development of the science, and the processes modifying the surface form and internal structure of the earth. Four hours classroom and two hours laboratory work per week. Laboratory will be held in the field when weather permits. *Elective for Sophomores. First semester.*

21S. PRINCIPLES OF GEOLOGY. Professor BAIN. 4 credit hrs.

Same as 21. *Elective for Freshmen. Second semester.*

22. HISTORICAL GEOLOGY. Professor RESO. 4 credit hrs.

The history of the development of the continents, the succession of plants and animals, and the evolution of life during the geologic past. Four hours of classroom and two hours laboratory work per week. Requisite: Geology 21. *Elective for Sophomores. Second semester.*

22S. HISTORICAL GEOLOGY. Professor RESO. 4 credit hrs.

(Same course as Geology 22.) *Elective for Sophomores. First semester.*

23. MINERALOGY. Professor BROPHY. 4 credit hrs.

A study of minerals and crystals including recognition, formation, occurrence, and use and an introduction to the nature of crystalline matter. Three hours of classroom and four hours laboratory work per week. *Elective for Sophomores. First semester.*

24. PETROLOGY. Professor BROPHY. 4 credit hrs.

A systematic study of sedimentary, igneous, metamorphic and hydrothermal rocks, their origins and physicochemical relationships. Three hours of classroom and four hours laboratory work per week. Requisite: Geology 21 and Geology 23. *Elective for Sophomores. Second semester.*

26. REGIONAL GEOLOGY AND GEOGRAPHY OF THE AMERICAS. Professor BAIN. 2 credit hrs.

A study of the development of the principal features in scenery, the rocks, the climate and human activities in the Americas and the surrounding oceans. Offered in alternate years with Geology 46. Two hours

of classroom and one hour of laboratory work per week. Requisite: Geology 21. *Elective for Sophomores. Second semester.*

28. REGIONAL GEOLOGY AND GEOGRAPHY OF THE

EASTERN HEMISPHERE. Professor BAIN. 2 credit hrs.

A study of the development of the principal features in scenery, the rocks, the climate and human activities in the eastern hemisphere and occluded oceans. Offered in alternate years with Geology 46. Two hours of classroom and one hour of laboratory work per week. Requisite: Geology 21. (Students may elect either Geology 26, or 28, or both.) *Elective for Sophomores. Second semester.*

30. MINERALS IN MODERN AFFAIRS.

2 credit hrs.

Professor BROPHY.

Minerals, their properties, recognition, distribution, and role today. This course is designed for the non-science major. Two hours classroom and one laboratory hour per week. *Elective for Sophomores. Second semester.* (Not given for credit for students taking any other course in geology.)

44. SEDIMENTOLOGY AND STRATIGRAPHY.

4 credit hrs.

Professor RESO.

A study of the features of modern sediments and the interpretation of sedimentary rocks and occurrence of resources in stratified rocks. Three hours classroom and four hours laboratory work per week. Requisite: Geology 22. *Elective for Juniors. Second semester.*

45. MINERAL DEPOSITS. Professor BAIN.

4 credit hrs.

A study of the origin and distribution of bodies that contain minerals essential to modern industrial life. Three classroom hours and four laboratory hours per week. Requisite: Geology 24. *Elective for Juniors. First semester.*

46. WORLD RESOURCES. Professor BAIN.

4 credit hrs.

An investigation into supplies of materials from the earth available to man and the average requirement per person for each. Land acreage, water power, and mineral resources are studied in detail. Given in alternate years. Three hours classroom, one discussion period, and two hours laboratory work per week. Requisite: Geology 22, or 26, or 28. *Elective for Juniors. Second semester. (Omitted 1961-62.)*

49. INVERTEBRATE PALEONTOLOGY. Professor RESO. 4 credit hrs.

The identification, relationships, occurrence, and use of fossil invertebrate animals and plants. Three hours classroom and four hours laboratory work per week. Requisite: Geology 22. *Elective for Juniors. First semester.*

55. VERTEBRATE PALEONTOLOGY. Professor WOOD. 4 credit hrs.

The evolution of vertebrates as shown by the study of fossils, and the relationship of environment to evolution. Three hours classroom and four hours laboratory work per week. (Some course as Biology 55.) Requisite: Geology 22. *Elective for Juniors. First semester.*

79, 80. CONFERENCE COURSE. The Staff. 4 to 6 credit hrs.

Special investigation of one or more topics in mineral deposits, structural geology, sedimentology, paleontology, or world resources. Two or more hours conference per week and laboratory work as required. Requisite: The background courses in the Department. *Elective for Seniors.*

German

Professor SCENNA; Associate Professor PEPPARD;
Assistant Professor WHITE; Assistants: Mrs. BREUSCH and Mr. BLEISCH

Note: The following courses may be used to satisfy the Humanities requirement in sophomore year: German 7, 21, 22, 27, 28, 32, 33, 35.

Major for students not candidates for the degree with honors. The major must include thirty credit hours, not counting those of courses 1 and 3. Eight of these credits may be in approved courses outside the Department.

A major in German will take a written examination in May of his senior year. A reading list will be suggested to aid in the preparation for this examination.

The examination will be based on the following:

- 1) major works of Lessing, Goethe, and Schiller;
- 2) representative works by authors of the 19th century;
- 3) works by an author of the candidate's choice.

A major must also demonstrate his ability to write correct German.

Honors: The aim of honors work in German is to offer the candidate the opportunity

- a) to explore a chosen field or fields through a more extensive program of readings than is possible in course work;
- b) to organize material for himself along historical or analytical lines, usually in the form of a thesis or essay;
- c) to acquire a general view of the history and development of German, either as language or literature.

The goal of this work is not necessarily to produce graduate students, unless a candidate has definitely decided upon doing graduate work. The program of the senior year is organized on the basis of individual conferences, in which the candidate benefits from personal attention.

Each candidate will present a thesis or essay on an approved topic. It may deal critically with the work of a specific author; it may treat the development of an idea in historical form; it may be a study of some particular literary form.

Each candidate will take, early in May, a written general examination on the history of German literature, which will also include questions in his chosen field. The result of this examination together with the excellence of the thesis or essay will determine the degree of honors for which the Department will recommend the candidate.

Candidates for the degree with honors should elect German 21, 22,

27, 43, 44, 79, 80. They are urged to study one ancient or other modern foreign language.

1. ELEMENTARY COURSE.

4 credit hrs.

Professor WHITE and assistants.

Grammar, pronunciation, oral practice. This course will meet three hours per week for explanation and demonstration, and three hours per week in small sections for oral practice. *Elective for Freshmen. First semester.*

3. INTERMEDIATE COURSE.

4 credit hrs.

Professor SCENNA and assistants.

Review of grammar and pronunciation, oral practice. Reading and analysis of selected texts. This course will meet three hours per week for explanation and demonstration, and three hours per week in small sections for drill in aural comprehension of the language. Assignment to this course will be made on the basis of the score in the CEEB Achievement Test. *Elective for Freshmen. First semester.*

3S. INTERMEDIATE COURSE.

4 credit hrs.

Professor WHITE and assistants.

Same description as above. Requisite: German 1, or its equivalent. *Elective for Freshmen. Second semester.*

5. ADVANCED COURSE.

4 credit hrs.

Professor PEPPARD and assistants.

Reading and analysis of selected texts. This course will meet three hours per week for demonstration and explanation, and three hours per week in small sections for oral practice and discussion. Stress will be placed on the acquisition of aural comprehension of the language and oral drill. Conducted as far as possible in German. Requisite: A satisfactory score in the CEEB Achievement Test, or German 3, or the equivalent. *Elective for Freshmen. First semester.*

Note: Freshmen will be assigned to German 1, German 3, or German 5 on the basis of the score in the CEEB Achievement Test and previous training. Part of the drill in these courses will be in the language laboratory.

5S. ADVANCED COURSE.

4 credit hrs.

Professor PEPPARD and assistants.

Same description as above. Requisite: German 3 or its equivalent. *Elective for Freshmen. Second semester.*

7. INTRODUCTION TO GERMAN LITERATURE.

4 credit hrs.

Professor PEPPARD.

Reading and discussion of selected literary texts. This course will be conducted as far as possible in German. Requisite: satisfaction of the language requirement. Four hours of classroom work per week. *Elective for Freshmen. First semester.*

7S. INTRODUCTION TO GERMAN LITERATURE. 1 credit hrs.

Professor PEPPARD.

Same description as above. Requisite: satisfaction of the language requirement, including satisfaction of the requirement at the end of the first semester. *Elective for Freshmen. Second semester.*

21. FAUST. Professor SCENNA. 2 credit hrs.

Faust, Part I. Study of the Faust legend and assigned readings. Requisite: German 7 or the consent of the instructor. Two classroom meetings per week. *Elective for Sophomores. First semester.*

21S. FAUST. Professor SCENNA. 2 credit hrs.

Same description as above. *Elective for Sophomores. Second semester.*

22S. FAUST. Professor SCENNA. 2 credit hrs.

Faust, Part II. Study of the Faust legend and assigned readings. Requisite: German 21 or the consent of the instructor. Two classroom meetings per week. *Elective for Sophomores. First semester.*

22. FAUST. Professor SCENNA. 2 credit hrs.

Same description as above. *Elective for Sophomores. Second semester.*

23. ADVANCED COMPOSITION AND CONVERSATION.

Professor WHITE.

4 credit hrs.

Practice in free composition and set translation into German; oral reports on selected topics. This course is designed primarily for those who wish to perfect their command of German for further study or for teaching the language. Offered every other year. Requisite: the consent of the instructor. *Elective for Sophomores. First semester.*

25, 26. READING COURSE. Professor PEPPARD. 4 credit hrs.

A year course open to those who have already satisfied their language requirement in another language and who desire a reading knowledge of German. Four hours of classroom work per week. *Elective for Sophomores. First and second semesters. This course will be given in alternate years, namely in 1961-62 and in 1963-64.*

27. THE AGE OF GOETHE. Professor SCENNA. 4 credit hrs.

A study of the development of German literature, particularly as reflected in the works of Goethe, excluding *Faust*. Selected readings in other authors of the period. Lectures, essays and assigned readings. Requisite: German 7 or the consent of the instructor. Three hours of classroom work per week. *Elective for Sophomores; limited to fifteen students. First semester. (Omitted 1961-62.)*

28. ADVANCED READINGS IN GERMAN LITERATURE.

Professor PEPPARD.

3 credit hrs.

The content of this course will be determined each year by the instructor

in charge. For 1961-62: German literature of the twentieth century, with some attention to the relation of literature to the national scene. Requisite: German 7, or consent of the instructor. Three hours of classroom work per week. *Elective for Sophomores. Second semester.*

32. THOMAS MANN. Professor WHITE.

1 credit hr.

An introduction to the shorter works of Thomas Mann and a study of his place in modern letters. Lectures and discussion. Requisite: German 7 or the consent of the instructor. One hour of classroom work per week. *Elective for Sophomores. Second semester.*

33. FRANZ KAFKA. Professor WHITE.

1 credit hr.

A study of Kafka and his place in European literature. Lectures and discussion. Requisite: German 7 or the consent of the instructor. One hour of classroom work per week. *Elective for Sophomores. First semester. (Omitted 1961-62.)*

35. GERMAN POETRY OF THE TWENTIETH CENTURY.

Professor WHITE.

1 credit hr.

Interpretation of German verse of the period, with emphasis on George, Rilke, Hofmannsthal, and the Expressionists. Requisite: German 7 or the consent of the instructor. One hour of classroom work per week. *Elective for Sophomores. First semester.*

42. GERMAN LITERATURE OF THE NINETEENTH CENTURY.

Professor SCENNA.

4 credit hrs.

Major developments in German prose, poetry and drama since the age of Goethe, with some attention to the contemporary literary scene. Readings, reports and discussions. Requisite: German 21, or German 27, or the consent of the instructor. One seminar meeting per week, together with individual conferences. *Elective for Juniors. Second semester. (Omitted 1961-62.)*

43. STUDIES IN GERMAN CULTURE I.

4 credit hrs.

Professor SCENNA.

Assignment of individual problems or readings in fields of special interest. Requisite: German 22 or the consent of the instructor. *Elective for Seniors. First semester.*

44. STUDIES IN GERMAN CULTURE II.

4 credit hrs.

Professor SCENNA

Assignment of individual problems or readings in fields of special interest. Requisite: German 22, or German 43, or the consent of the instructor. *Elective for Seniors. Second semester.*

79-80. HONORS COURSE FOR SENIORS.

6 credit hrs.

The Department.

History

Professors COMMAGER, HAVIGHURST, ROZWENC, and SALMON; Associate Professors DOUGLAS, GREENE, and HALSTED; Assistant Professors CROWLEY, CZAP, HAWKINS* and PETROPULOS; Messrs. BARNES and GAGLIARDO.

Note: A major in history will consist of eight semester courses in addition to the required sequence courses (History 1-2 and American Studies 21-22) of the freshman and sophomore years.

History 23-24 will satisfy the humanities requirement.

Comprehensive examination: Beginning with the class of 1962, all students majoring in history will take a written, six-hour examination in the spring of senior year. This examination will test the student's historical knowledge and understanding within the limits of a program of study approved by the department. But the student is responsible for the design of his own course of study subject to the general requirements which follow.

Each student will be examined on a "primary field" and a "secondary field". For his "primary field" the student will designate one of the following: (1) Western Europe, (2) The Americas—United States and Latin America, (3) Eastern Europe, (4) The Middle East, (5) The Far East. The student's "secondary field" is to be chosen from an historical tradition outside the "primary field". Within the secondary field the student is to select some topic or some development which bears some relation to the primary field and is chosen for purposes of comparative study. In addition each student will be expected to have some understanding of the nature of history and some knowledge of the history of historical writing.

A Reading List will be available to assist students in preparation for this examination.

Honors Program: All candidates for honors must elect History 70, 79, and 80. These three courses form an integrated enterprise. The object is to offer the student an opportunity to arrive at some understanding of what "history" is and how the historian works: first, by the study of the writings of historians themselves and of a variety of problems which historians have faced, and second, by individual and original work through the application of historical principles. Thus, the nature and method of history will be studied in the statements of certain well-known historians as to what they conceive themselves to have been doing, and then through the examination of how various historians have used evidence, employed analytic concepts, and synthesized materials in selected areas of historical experience. Hence, students will have an opportunity to assess a variety of approaches to history as well as the usefulness to history of concepts taken from adjacent disciplines. By stressing the importance of selecting a thesis topic in the spring of the junior year, encouragement will be given to a fuller utilization of the summer following for research or for further preparatory work in a relevant language. In the senior year, the history honors

* Absent on leave 1961-62.

student will give a very considerable part of his time to the preparation of a thesis.

1. THE DEVELOPMENT OF WESTERN CIVILIZATION AND AN INTRODUCTION TO THE SOCIAL SCIENCES. 4 credit hrs.

Professors CROWLEY, CZAP, DOUGLAS, HALSTED, HAVIGHURST and PETROPULOS; Messrs. BARNES and GAGLIARDO.

An introduction to the history of Europe, with particular emphasis on the development of its social order, economic and political institutions, social theory and historical thought; the course also examines the encounter of Europeans with the civilizations of Islam and the Far East. Two lectures, two section meetings per week. *Required for Freshmen. First semester.*

2. THE DEVELOPMENT OF WESTERN CIVILIZATION AND AN INTRODUCTION TO THE SOCIAL SCIENCES. 4 credit hrs.

Professors CROWLEY, CZAP, DOUGLAS, HALSTED, HAVIGHURST and PETROPULOS; Messrs. BARNES and GAGLIARDO.

Continuation of History 1. Two lectures, two section meetings per week. *Required for Freshmen. Second semester.*

21. LATIN AMERICA. Professor SALMON. 3 credit hrs.

The colonial history of Latin America from the period of discovery through the Wars of Independence, with a survey of Indian and Iberian backgrounds, cultural and political. Three hours of classroom work per week. *Elective for Sophomores. First semester.*

22. LATIN AMERICA. Professor SALMON. 3 credit hrs.

The history of the Latin American states in the national period, from Independence to the present, with attention to economic and international problems as well as to national political development. *Elective for Sophomores. Second semester.*

23. CLASSICAL CIVILIZATION. Professor MOORE. 3 credit hrs.

(Same course as Classics 23.) *Elective for Sophomores. First semester. (Omitted 1961-62.)*

24. CLASSICAL CIVILIZATION. Mr. MARSHALL. 3 credit hrs.

(Same course as Classics 24.) *Elective for Sophomores. Second semester.*

25S. TOPICS IN THE HISTORY OF MEDIEVAL EUROPE.

Professor HAVIGHURST. 4 credit hrs.

A course based on the intensive study of three or four aspects of medieval society, institutions and thought. Topics will be chosen to illustrate: (1) sources and forms of historical evidence; (2) the use and interpretation of such evidence in historical writing. Emphasis will be placed on the varied

ways in which the age reveals itself to historians. Individual projects and class discussion. *Elective for Sophomores. Second semester.*

33. THE HISTORY OF AMERICAN SOCIETY. 4 credit hrs.
Professor ROZWENC.

The changing relations in American social thought and behavior in the generations from the American Revolution to the end of the Civil War. Emphasis is given to basic political, economic and social institutions, to the place of science and technology in American society, and to competing ideas and social myths. *Elective for Sophomores. First semester. (To be given every year.)*

34. THE HISTORY OF AMERICAN SOCIETY. 4 credit hrs.
Professor ROZWENC.

The changing relations in American social thought and behavior in the generations from the Gilded Age to the present. Emphasis is given to basic political, economic and social institutions, to the place of science and technology in American society, and to competing ideas and social myths. *Elective for Sophomores. Second semester. (To be given every year.)*

36. THE HISTORY OF AMERICAN EDUCATION. 4 credit hrs.
Professor HAWKINS.

Selected topics with emphasis on the nineteenth century, higher education and European influences. Students will pursue individual case studies in areas chosen for analysis. Three meetings a week. Limited to twenty-five students. *Elective for Sophomores. Second semester. (Omitted 1961-62.)*

40S. THE MODERN MIDDLE EAST. 4 credit hrs.
Professor PETROPULOS.

The course gives special attention to the impact of the West on Islamic civilization and to the problems of under-development faced by nation-states in the Middle East. The first half of the course deals with topics on acculturation, cultural growth and decline from the seventh through the eighteenth century. The latter half focuses primarily on modern Egypt and Turkey. *Elective for Juniors. First semester.*

41. RUSSIA. Professor CZAP. 4 credit hrs.

The history of Imperial Russia until 1894. The course will include a brief discussion of Russia's Kievan and Muscovite background and will emphasize the development of political institutions, the growth and collapse of serfdom, the village commune, the agrarian problem and the impact of industrialization in the post-Emancipation period, and the growth of revolutionary thought and action. *Elective for Juniors. First semester.*

42. RUSSIA. Professor CZAP. 4 credit hrs.

The history of Russia and the Soviet Union in the 20th century. The course will include a discussion of the constitutional monarchy, the 1917 revolutions and establishment of the Soviet regime, and will survey the

development of agriculture and industry and the evolution of the Communist party through the post-war years. *Elective for Juniors. Second semester.*

43. EUROPE IN THE NINETEENTH CENTURY. 4 credit hrs.
Professor HALSTED.

An examination of the character of European society in the early nineteenth century through the study of four or five topics selected to reveal the relationships of dominant intellectual currents to major political, social, and economic developments. *Elective for Juniors. First semester.*

44. EUROPE IN THE NINETEENTH CENTURY. 4 credit hrs.
Professor HALSTED.

Ideas and social change in the latter part of the nineteenth century in Europe, examined through four or five illustrative topics. *Elective for Juniors. Second semester.*

45. THE FAR EAST: CHINA AND JAPAN. 4 credit hrs.
Professor CROWLEY.

A study of the processes of change within the political, social, economic and religious institutions of "traditional" China and Japan. Particular attention will be given to the influence of ideas and social values on the political history of both countries from antiquity to the 18th century. *Elective for Juniors. First semester.*

46. THE FAR EAST: CHINA AND JAPAN. 4 credit hrs.
Professor CROWLEY.

An appraisal of the processes of revolution and institutional change in East Asia during the 19th and 20th centuries. Emphasis will be given to the following themes: the role of "traditional" values in China's response to the West and in the modernization of Japan; the nature and significance of Japan's New Order in East Asia; and the emergence of Communist China. *Elective for Juniors. Second semester.*

47. SEVENTEENTH CENTURY EUROPE. 4 credit hrs.
Elective for Juniors. First semester. (Omitted 1961-62.)

48. AGE OF THE ENLIGHTENMENT. 4 credit hrs.
Elective for Juniors. Second semester. (Omitted 1961-62.)

49. EUROPE IN THE TWENTIETH CENTURY: 4 credit hrs.
FIRST WORLD WAR. Professor SALMON.
Elective for Juniors. First semester.

50. EUROPE IN THE TWENTIETH CENTURY: 4 credit hrs.
SECOND WORLD WAR. Professor SALMON.
Elective for Juniors. Second semester.

51S. ENGLISH HISTORY: TUDORS AND STUARTS. 3 credit hrs.
Professor HAVIGHURST.

An examination of English society and institutions from 1485 to 1714:

the English break with Rome and the Elizabethan Settlement in religion; the Elizabethan Age; development of Puritan thought; constitutional conflicts of the 17th century, with some attention to their social and economic implications. Three hours of classroom work per week. *Elective for Juniors. Second semester. (Given in alternate years. Omitted 1961-62.)*

52. BRITAIN SINCE 1815. MR. BARNES. 4 credit hrs.

A study of some of the fundamental changes in English society and institutions from 1815 to the present. Where possible contemporary materials will be the basis of study. Topics to be examined: "Victorian Compromise"; British policy in Europe; social thought and social change, 1870-1914; changing concept of Empire; Socialist Britain. Lectures, discussion and individual projects. *Elective for Juniors. Second semester.*

55. THE FRENCH REVOLUTION. PROFESSOR SALMON. 3 credit hrs.

A study of the Revolution in France and its impact on Western Europe and on western civilization, with brief consideration of the Ancien Regime and with emphasis on political, economic, and military factors.

Three hours of classroom work per week. *Elective for Juniors. First semester. (Omitted 1961-62.)*

56. THE AGE OF NAPOLEON. PROFESSOR SALMON. 3 credit hrs.

A continuation of History 55 from 1799 through 1815.

Three hours of classroom work per week. *Elective for Juniors. Second semester. (Omitted 1961-62.)*

57. THE SOUTH SINCE THE CIVIL WAR. 4 credit hrs.

Professor HAWKINS.

An examination of the South as a culture, with stress on the forces that have affected its particularism. Reconstruction; Redemption and the New South; Populist Revolt; Disfranchisement and the Atlanta Compromise; topical investigations of the political, economic, social, and intellectual life of the South in the present century. The last fifth of the course will be devoted to the South since 1940, emphasizing New Reconstruction.

Three class-meetings per week. Limited to 25 students. *Elective for Juniors. First semester. (Omitted 1961-62.)*

59. SOCIETY AND POLITICS IN DE TOCQUEVILLE'S

AMERICA. PROFESSOR ROZWENC.

4 credit hrs.

An intensive examination of the influence of social and economic changes upon politics in America in the second quarter of the nineteenth century. Special attention will be given to political ideas not only of politicians but of journalists and literary figures as well. A few key problems will be analyzed by means of a comparative examination of England and France in the same period. *Elective for Juniors. Limited to twenty-five students. First semester. (Omitted 1961-62.)*

60S. SOCIETY AND POLITICS IN THE ERA OF THE NEW

DEAL. Professor ROZWENC.

4 credit hrs.

An intensive examination of the influence of social and economic changes on politics and political thought. Special attention will be given to selected writings including works on politics and social problems, imaginative literature, and major works of historical interpretation. *Elective for Juniors. Limited to fifteen students. First semester.*

61. FOUNDATIONS OF AMERICAN CIVILIZATION. 4 credit hrs.

Professor GREENE.

An analysis of the first five generations of Americans (from early settlers through the Revolutionary generation) with emphasis upon the origins of certain fundamental themes in American history: social classes, immigration, European-American relations, frontier vs. city, science vs. religion, and constitutional democracy. Four hours of classroom work per week. *Elective for Juniors. First semester.*

62. AMERICAN DIPLOMATIC HISTORY.

3 credit hrs.

Professor GREENE.

The history of American foreign policy from the American Revolution to the present, with emphasis on the period since 1898. Three hours of classroom work per week. *Elective for Juniors. Second semester. (Omitted 1961-62.)*

63. THE ITALIAN RENAISSANCE. Professor DOUGLAS. 4 credit hrs.

Urban society in Italy (c. 1200-1500), forms of power, the social order, humanist thought, theory of art and the uses of antiquity. Concluding weeks deal with Burgundy and the Netherlands in the fifteenth century. *Elective for Juniors. First semester.*

64. THE SIXTEENTH CENTURY. Professor DOUGLAS. 4 credit hrs.

The Renaissance in northern Europe and the Reformation, with emphasis on the major forms of protest and complaint, both secular and religious, against the condition of society, the state and the church. *Elective for Juniors. Second semester.*

66. THE PROGRESSIVE GENERATION.

4 credit hrs.

Professor GREENE.

A study of the responses to change made by Americans in the generation from 1890 to 1920. By concentrating upon a single generation the course will explore some of the interrelations among politics, literature, business, the professions, religion, and popular culture. *Elective for Juniors. Limited to fifteen students. Second semester.*

67. FOUNDATIONS OF ENGLISH LAW AND THE

CONSTITUTION. Professor HAVIGHURST.

4 credit hrs.

Origins of the English Constitution; growth of Common Law; evolution of Parliament; development of monarchy; constitutional conflicts. Lectures, seminar discussion and individual projects. Three hours of classroom

work per week. *Elective for Juniors; limited to twenty-five students. First semester. (Given in alternate years.)*

70. CONFERENCE COURSE. JUNIOR HONORS. 4 credit hrs.
The Department. *Elective for Juniors. Second semester.*

73. CONFERENCE COURSE IN AMERICAN INTELLECTUAL HISTORY. Professor COMMAGER. 4 credit hrs.

This course will consist of reading, discussion and reports on some of the significant books of American intellectual history: Emerson's *English Traits*; *The Federalist Papers*; Rolvaag's *Giants in the Earth*; Robinson, *Collected Poems*; selections from the writings of Lester Ward, William James, Thorstein Veblen, Justice Holmes, Frank Lloyd Wright, and others. *Limited to 15 students in each section. Three sections. Sec. A will emphasize the interests of students of American studies, history, and literature. Sec. B. will emphasize the interests of students of the sciences. Sec. C will emphasize the interests of students of politics, law and economics. Elective for Juniors. Admission by permission of instructor only. First semester.*

74. CONFERENCE COURSE IN AMERICAN INTELLECTUAL HISTORY. Professor COMMAGER. 4 credit hrs.

Continuation of History 73. *Elective for Juniors. Admission by permission of instructor only. Second semester.*

79. CONFERENCE COURSE. SENIOR HONORS. 6 credit hrs.
The Department.

This course consists of two enterprises: (a) a seminar in historiography; (b) preparation of an honors thesis. *Elective for Seniors. First semester.*

80. CONFERENCE COURSE. SENIOR HONORS. 6 credit hrs.
The Department.

Preparation of an honors thesis. Requisite: History 79. *Elective for Seniors. Second semester.*

Humanities

1. HUMANITIES. 2 credit hrs.
Professors EPSTEIN, FUNNELL, HUMPHRIES, MOORE (chairman), JOHNSON, PARRY, PEMBERTON and WHITE; Messrs. BALLARD, BARNES, GAGLIARDO and KING-FARLOW.

A reading course: fairly rapid reading for understanding and enjoyment. The course is intended to serve as a contribution to the student's general education, and the books are chosen to illustrate certain important stages in the development of Western culture. The reading list varies somewhat from year to year, but in general this semester is given over largely to Greek literature. The course is conducted in small sections: class discussions, short papers, occasional lectures. Two hours per week. *Required for Freshmen. First semester.*

2. HUMANITIES.

2 credit hrs.

Professors EPSTEIN, FUNNELL, HUMPHRIES, MOORE (chairman), PEMBERTON, CANNON, PETROPULOS and WHITE; Messrs. BALLARD, DOLIN, GAGLIARDO and KING-FARLOW.

A continuation of Humanities 1. The reading list for this semester includes in general, readings from the Bible and works selected from the medieval, Renaissance and modern periods. Three hours per week. Requisite: Humanities 1. *Required for Freshmen. Second semester.*

Italian

Professor FRENCH

1. ELEMENTARY COURSE. Professor FRENCH.

4 credit hrs.

Recognition and imitation of basic sentence patterns, vocabulary and verb forms. Extensive drill on pronunciation in class and laboratory; graded reading from beginning of course with oral-aural drill on same. Six hours classwork practice and laboratory per week. *Elective for Freshmen. First semester.*

3S. INTERMEDIATE COURSE. Professor FRENCH.

4 credit hrs.

Continued oral-aural practice. Reading and analysis of original texts, such as Wilkins and Altrocchi, *Italian Short Stories*; Pirandello, *Atti unici* (3 plays); Fogazzaro, *Piccolo mondo antico*. Five hours per week. *Elective for Freshmen. Second semester.*

21. READINGS IN ITALIAN LITERATURE FROM BOCCACCIO TO THE PRESENT. Professor FRENCH.

4 credit hrs.

Reading of important works with special attention to the modern period. Requisite: Italian 3. Four hours of classroom work per week. *Elective for Sophomores. First semester.*

22. DANTE. Professor FRENCH.

4 credit hrs.

A reading of the *Inferno* and of parts of the *Purgatorio* and *Paradiso*. Special study of the social and political background of the work. Requisite: Italian 21. Special reports and papers. Given in alternate years. Three hours of classroom work per week. *Elective for Sophomores; limited to twenty-five students. Second semester.*

24. THE RENAISSANCE. Professor FRENCH.

4 credit hrs.

Origins in Boccaccio's *Decamerone* and in Petrarch's *Canzoniere*. Reading of Cellini's *Vita*, Castiglione's *Cortegiano* and Machiavelli's *Principe* with a study of the social background of the fifteenth and sixteenth centuries. Special reports and papers. Requisite: Italian 21. Three hours of classroom work per week. *Elective for Sophomores; limited to twenty-five students. Second semester. (Omitted 1961-62.)*

Legal Studies

Professors HAVIGHURST, LATHAM and ZIEGLER.

25. AMERICAN CONSTITUTIONAL DEVELOPMENT. 4 credit hrs. Professor LATHAM.

The development of American constitutional philosophy since 1787 under three general heads: the Agrarian Constitution, the Laissez-Faire Constitution, and the Welfare Constitution. Topics will include the Marshall and Taney eras, constitutional problems of slavery, the Civil War and Reconstruction, the constitutional foundations of 19th century capitalism, constitutional problems of federal and state regulation, civil liberties in the 20th century, the constitutional crisis of 1935-1937, and current problems of constitutional interpretation. Attention will be given to the judicial philosophies of the Federalist and Jacksonian judges, Field, Miller, Waite, Harlan, Holmes, Brandeis, Hughes, Stone, Black, and Frankfurter. Four hours of classroom work per week. (Same course as Political Science 25.) *Elective for Sophomores. First semester. (Omitted 1961-62.)*

42. ADMINISTRATIVE LAW. Professor ZIEGLER. 4 credit hrs.

An introduction to the American system of legal control exercised by other law administering agencies than the courts, with special reference to doctrines developed by the Interstate Commerce Commission, Securities and Exchange Commission, Federal Trade Commission, and the National Labor Relations Board. The course deals with the formulation of legislative purposes and administrative policies; administrative and judicial responsibility for the enforcement of agency programs; and the nature and extent of judicial control over administrative action. (Same course as Political Science 42.) Prerequisite: Political Science 25 or Political Science 41. Three hours of classroom work per week. *Elective for Juniors; limited to twenty-five students. Second semester. (Omitted 1961-62.)*

44. INTERNATIONAL LAW. Professor ZIEGLER. 4 credit hrs.

The historical basis and present trends in the development of international law will be discussed and related to the social, economic, and political aspects of present day world politics and government. (Same course as Political Science 44.) Four hours of classroom work per week. *Elective for Juniors. Second semester.*

67. FOUNDATIONS OF ENGLISH LAW AND THE CONSTITUTION. Professor HAVIGHURST. 4 credit hrs.

Origins of the English Constitution; growth of Common Law; evolution of Parliament; development of Monarchy; constitutional conflicts. (Same course as History 67.) Three hours of classroom work per week. *Elective for Juniors; limited to twenty-five students. First semester.*

Mathematics

Professors BREUSCH, BROWN, and SPRAGUE; Associate Professor WILLCOX; Assistant Professor LOOMIS.

Note: A major in mathematics must elect 3, 23S, 25, 31, 32. The comprehensive examination in the spring of senior year will be limited to these courses. All mathematics courses except 1-2 give major credit.

In addition to the general College requirements, a degree with honors is awarded on the basis of accomplishment in the courses in mathematics required for a major, in the conference course, and in any additional courses prescribed by the Department. A thesis may be required.

The content of the conference course varies from year to year. Topics that have been or may well be given are Complex Variable, Abstract Algebra, Algebraic Geometry, Differential Geometry, Topology and Analysis.

1. Same course as Science 1. 4 credit hrs.

2. Same course as Science 2. 4 credit hrs.

3. CALCULUS. Professors SPRAGUE and WILLCOX. 4 credit hrs.

Continuous functions, differentiation and integration of trigonometric and logarithmic functions and their inverses, curvature, curvilinear motion, curve tracing, theorem of mean value, formal integration, infinite series, simple partial differentiation. Requisite: Science 1 or its equivalent. Four hours of classroom work per week. *Elective for Sophomores. First semester.*

3S. CALCULUS. Professor WILLCOX. 4 credit hrs.

Same description as above. *Elective for Freshmen. Second semester.*

3X. CALCULUS. 4 credit hrs.

Same course as Mathematics 3. Two hours of classroom work per week throughout the year. *Elective only for freshmen who are excused from Mathematics 1-2 and who wish to continue the study of mathematics without interruption. First and Second Semesters.*

23S. DIFFERENTIAL EQUATIONS. Professor LOOMIS. 3 credit hrs.

Treatment of ordinary differential equations with principal types of first and second order equations, linear equations with constant coefficients, simultaneous equations. Simple partial differential equations. Applications to geometry, physics and other branches of science. Requisite: Mathematics 3. Three hours of classroom work per week. *Elective for Sophomores. Second semester.*

25. ABSTRACT ALGEBRA. Professor BROWN. 4 credit hrs.

A development of the characteristic properties of the integers and the rational, real and complex number systems as instances of properties of

rings, integral domains and fields, followed by a selection from the following topics: groups, polynomial rings, matrix rings. Four hours of classroom work per week. *Elective for Sophomores. First semester.*

31. ADVANCED CALCULUS. Professor BREUSCH. 4 credit hrs.

Brief treatment of determinants and solid analytic geometry, partial differentiation, implicit function theory, elements of vector analysis with applications. Requisite: Mathematics 3. Four hours of classroom work per week. *Elective for Juniors. First semester.*

32. ADVANCED CALCULUS. Professor BREUSCH. 4 credit hrs.

Multiple integrals, line and surface integrals, transformation of integrals, uniform convergence, Fourier series. Requisite: Mathematics 31. Four hours of classroom work per week. *Elective for Juniors. Second semester.*

33S. MATRICES AND VECTOR SPACES. 3 credit hrs.

Professor BROWN.

Vector spaces; matrices and linear transformations on a vector space; determinants and their role in linear algebra; diagonalization and canonical forms of matrices; some applications to other branches of science. Three hours of classroom work per week. *Elective for Sophomores. Second semester.*

34S. PROBABILITY AND STATISTICS. 3 credit hrs.

Professor LOOMIS.

Elementary probability. Random variables with discrete and continuous distribution functions. Joint distribution functions. Distribution functions of frequent occurrence in statistics, such as Poisson, normal in one and two variables, Chi square and Student's *t*. Requisite: Mathematics 3. Three hours of classroom work per week. *Elective for Sophomores. First semester, alternate years.*

42. FUNCTIONS OF A COMPLEX VARIABLE. 3 credit hrs.

An introduction to analytic functions. Point sets, complex numbers, derivatives, conformal mapping, integrals. Cauchy's theorems, power series, singularities, Laurent series, analytic continuation, rational, entire, meromorphic and multiple-valued functions. Riemann surfaces. Requisite: Mathematics 31. Three hours of classroom work per week. *Elective for Juniors. Second semester, alternate years. (Omitted 1961-62.)*

43. THEORY OF NUMBERS. Professor BREUSCH. 3 credit hrs.

An introduction to the theory of rational integers. Divisibility, prime numbers, the unique factorization theorem, congruences, quadratic residues, Fermat's theorem, Diophantine equations. Three hours of classroom work per week. *Elective for Juniors. First semester, alternate years.*

45. POINT-SET TOPOLOGY. 3 credit hrs.

A brief treatment of elementary set theory and the real number system will be given to motivate the definition of a topological space, after which topics will be selected from the following: topological spaces, metric

spaces, compactness, connectedness, embedding theorems, metrization theorems, compactification, topological characterizations of arcs and curves. Requisite: Mathematics 25 or 32. Three hours of classroom work per week. *Elective for Juniors. First semester, alternate years. (Omitted 1961-62.)*

48. DIFFERENTIAL GEOMETRY. Professor SPRAGUE. 3 credit hrs.

An introduction to the differential geometry of curves and surfaces; curvature, torsion, Frenet formulae; curvilinear coordinates, first and second fundamental form, surface curvature, lines of curvature, geodesics, fundamental equations. Requisite: Mathematics 31. Three hours of classroom work per week. *Elective for Juniors. Second semester, alternate years.*

79. CONFERENCE COURSE. Professor WILLCOX. 4 credit hrs.
Elective for Seniors. First semester.

80. CONFERENCE COURSE. The Department. 6 credit hrs.
Elective for Seniors. Second semester.

Music

Professors MISHKIN and V. MORGAN; Assistant Professor ALEXANDER;
Mr. CRAWFORD.

The music major consists of the following basic courses: Music 25, Music 23-24, Music 41-42, and Music 53-54. Advanced work may be in theory, literature, or applied music. Majors in theory and music literature must also elect Music 47-48 and at least one other course in music; majors in applied music, at least two years of Music 29-30. Part of the advanced work in music theory and applied music will be done with members of the music departments of Smith and Mount Holyoke.

All music majors must take comprehensive examinations in music theory and literature in the final semester of their senior year.

Honors candidates will arrange individual programs with the Department at the beginning of their junior year. Compositions, essays or recitals will be required according to the field of concentration. All honors candidates must elect Music 79-80.

Music 25 and any other course except 23-24, 29-30, 47-48, 53-54 may be used in satisfaction of the sophomore humanities requirement.

23. ELEMENTARY THEORY. Mr. CRAWFORD. 4 credit hrs.

A study of the rhythmic, melodic, and harmonic organization of musical tones with emphasis on the harmonic idiom of the eighteenth century. Triads and their inversions, non-harmonic tones, secondary dominants, writing in the style of the Bach chorales, ear training. Limited to fifteen students. Requisite: ability to play all written work and consent of the Department. Three hours of classroom work per week. *Elective for Sophomores. First semester.*

24. ELEMENTARY THEORY. Mr. CRAWFORD.

4 credit hrs.

A continuation of Music 23. Seventh chords, elementary phrase construction, harmonic analysis. Limited to fifteen students. Requisite: Music 23. Three hours of classroom work per week. *Elective for Sophomores. Second semester.*

25. AN INTRODUCTION TO MUSICAL LITERATURE.

Professor V. MORGAN.

3 credit hrs.

Western music from Gregorian chant to the present time with emphasis on music since 1500. No previous study of music is required. *Elective for Sophomores. First semester. (Omitted 1961-62.)*

25S. AN INTRODUCTION TO MUSICAL LITERATURE.

Professor ALEXANDER.

3 credit hrs.

Same course as Music 25. *Elective for Sophomores. Second semester.*

27. THE LANGUAGE OF MUSIC. Professor MISHKIN.

3 credit hrs.

A creative study of the elements of music based upon a critical analysis of the composer's method. Models will be selected from a wide variety of musical styles. No previous study of music is required. Music 27 may be offered as the prerequisite for further study in the Department. *Elective for Sophomores. First semester.*

29. APPLIED MUSIC.

3 credit hrs.

Under the co-operative plan courses are offered in the following branches of applied music: piano, organ, voice, violin, viola, violoncello. These courses may be elected by a limited number of students who satisfy the Department, at an audition, that they are prepared to undertake the study of solo music literature of artistic worth. Students will normally be expected to begin their college work in applied music as sophomores and to continue the study for two years. During the first two years of study three credit hours will be granted for each semester: two for the lesson and practice, and one for the co-requirement listed as (c) below. Under exceptional circumstances a student may, with permission of the Dean, elect a third year for which there will be two credit hours per semester. No credit is granted for a single semester of applied music.

Students of keyboard and string instruments have one hour of private instruction per week and are required (a) to practice a minimum of nine hours per week, and (b) to elect in sophomore or junior year one other course offered by the Department. In addition keyboard students are required (c) to participate in a weekly session of ensemble playing, and string students to attend the weekly rehearsal of the Smith-Amherst Orchestra.

Students of voice have one hour of private instruction per week and are required (a) to practice a minimum of eight hours per week, (b) to elect in sophomore or junior year one other course offered by the Department, and (c) to sing with the Glee Club.

Private instruction will be given by members of the Departments of Music of Smith College and Mt. Holyoke College. The courses are listed in

the catalogues of our sister institutions as: Smith College—Piano 121, 122, 323, 424; Organ 232, 333, 434; Violin 151, 252, 353, 454; Viola 161, 262, 363, 464; Violoncello 171, 272, 373, 474; and Mount Holyoke College—Voice 167f, 168s. A fee of \$75 per semester will be charged to cover this special type of instruction. *Elective for Sophomores and qualified Freshmen with the consent of the Department and of the instructor. First semester.*

30. APPLIED MUSIC. 3 credit hrs.

A continuation of Music 29. *Elective for Sophomores and qualified Freshmen with the consent of the Department and of the instructor. Second semester.*

41. SYMPHONIC MUSIC. Professor ALEXANDER. 3 credit hrs.

The development of orchestral literature from Haydn through Brahms; the symphony, concerto, and symphonic poem. Requisite: Music 25 or the consent of the Department. Three hours of classroom work per week. *Elective for Juniors. First semester.*

42. MUSIC SINCE 1900. Professor ALEXANDER. 3 credit hrs.

The musical scene in Europe and in the United States during the twentieth century. Analyses of works by Schönberg, Stravinsky, Bartók, Hindemith, Copland and others. Requisite: Music 25 or the consent of the Department. Three hours of classroom work per week. *Elective for Juniors. Second semester. (Omitted 1961-62.)*

43. CHORAL MUSIC. Professor ALEXANDER. 3 credit hrs.

A study of the important role played by the madrigal, motet, mass, oratorio and other forms of choral composition in the history of Western music. Representative examples from the Middle Ages to the present day will be examined and compared. Requisite: Music 25 or the consent of the Department. Three hours of classroom work per week. *Elective for Juniors. First semester. (Omitted 1961-62.)*

44. BEETHOVEN. Professor MISHKIN. 3 credit hrs.

A study of the piano, chamber, and orchestral music. Requisite: Music 25 or the consent of the Department. Three hours of classroom work per week. *Elective for Juniors. Second semester in alternate years.*

45. BACH. Professor MISHKIN. 3 credit hrs.

The Bach style studied in relation to the development of music from 1600. Requisite: Music 25 or the consent of the Department. Three hours of classroom work per week. *Elective for Juniors. First semester in alternate years.*

46. THE OPERA. Professor V. MORGAN. 3 credit hrs.

The development of the musical drama with emphasis on a detailed study of operatic types. Representative works by Mozart, Verdi, and Wagner. Requisite: Music 25 or the consent of the Department. Three hours of classroom work per week. *Elective for Juniors. Second semester in alternate years. (Omitted 1961-62.)*

47. CHROMATIC HARMONY AND ANALYSIS.

3 credit hrs.

Mr. CRAWFORD.

A continuation of Music 23-24 with emphasis on the harmonic idioms of the nineteenth century. Composition in the smaller forms. Requisite: Music 24. *Elective for Juniors. First semester.*

48. TONAL COUNTERPOINT. Professor MISHKIN.

3 credit hrs.

Contrapuntal technique of the eighteenth century, invertible counterpoint, canon, and two part inventions. Requisite: Music 24. *Elective for Juniors. Second semester.*

52. MOZART AND THE CLASSICAL STYLE.

3 credit hrs.

Professor MISHKIN.

A study of the classical idiom with special reference to the instrumental and vocal music of W. A. Mozart. Requisite: Music 25 or the consent of the Department. *Elective for Juniors and qualified Sophomores. Second semester in alternate years. (Omitted 1961-62.)*

53. SPECIAL STUDIES IN MUSICAL ANALYSIS.

3 credit hrs.

The Department.

An historical-analytical approach to the study of style. Representative examples of the motet, pre-fugal forms, and variation will be analyzed in detail. Limited to 12 students. One two-hour seminar per week. Requisite: Music 23, 24, 25 and the consent of the Department. *Elective for Seniors. First semester.*

54. SPECIAL STUDIES IN MUSICAL ANALYSIS.

3 credit hrs.

The Department.

A continuation of Music 53. Representative examples of the madrigal, binary form, and the art song will be analyzed in detail. Requisite: Music 53. *Elective for Seniors. Second semester.*

79. CONFERENCE COURSE. The Department.

6 credit hrs.

Studies in history or advanced theory. *Elective for qualified Seniors. First semester.*

80. CONFERENCE COURSE. The Department.

6 credit hrs.

A continuation of Music 79. *Elective for qualified Seniors. Second semester.*

Non-Western Studies

A number of courses in Non-Western Studies will be offered at Amherst, Mount Holyoke, and Smith Colleges and the University of Massachusetts as part of the Four-College Cooperative program. Qualified students may enroll in these courses at any of the four campuses. Course descriptions and further information and enrollment procedures may be obtained from the Registrar.

The following course will be offered at Mount Holyoke one afternoon a

week during the first semester, and at Amherst one afternoon a week during the second semester.

SEMINAR ON SOUTH ASIA.

3 credit hrs.

To be given by the South and Southeast Asia Studies Group of the Massachusetts Institute of Technology. The Seminar will be conducted by a group of academic specialists in the economics, politics, history, and sociology of the area, headed by Dr. Lucien Pye. It will be largely concerned with India and Pakistan. Two and one half hours per week. *Elective for Sophomores. First and Second Semesters.*

Philosophy

Professors EPSTEIN and KENNEDY; Associate Professors GOULD * and KENNICK;* Messrs. BALLARD and KING-FARLOW

Note: The courses open to Sophomores: Introduction to Philosophical Literature, Ethics, Logic, and History of Philosophy, may count towards a major in Philosophy. All majors in philosophy are required to take Philosophy 43 and 44.

The comprehensive examination in philosophy will deal with the history of philosophy and with selected additional topics in philosophy, including ethics and logic. Further information may be obtained from members of the department.

Candidates for the degree with honors in philosophy are required to take the courses numbered 23, 24, 43, 44, 79, and 80, and will elect their further courses with the approval of the Department. Each candidate will write, in conjunction with the conference courses in the senior year, an original essay on a topic which has been approved by the Department. He will take, early in May of senior year, two written and one oral examinations. One written examination will be on the general history of European and American philosophy. The other written examination will be on some field of philosophy which the candidate may select, with the approval of the Department—metaphysics and philosophy of science, logic and theory of knowledge, ethics and social philosophy, aesthetics, history and philosophy of religion. The oral examination will be a defense by the candidate of his original essay before a committee of members of the Philosophy and affiliated Departments. Recommendation for the various degrees of honors will be made by the Department on the basis of the original essay and the three examinations.

Majors and majors with honors may also be taken in the following combined fields:

Philosophy and Classics
Philosophy and English
Philosophy and History

* Absent on leave 1961-62.

Philosophy and Political Science
 Philosophy and Psychology
 Philosophy and Religion

The selection of courses to constitute such combined majors, the topic for an original essay and the arrangements for comprehensive examinations must in each case be approved by representatives of the two departments concerned. Recommendation for the various degrees with honors will be made by committees composed of members of the two departments concerned.

21. INTRODUCTION TO PHILOSOPHICAL LITERATURE.

Professor EPSTEIN and Mr. BALLARD.

3 credit hrs.

Training in the reading of philosophical literature. Classical and contemporary authors, chosen to exemplify the different basic types of philosophical thought, will be discussed. This course may be taken to meet part of the sophomore requirement in connection with the Humanities. Three class hours per week. *Elective for Sophomores. First semester.*

21S. INTRODUCTION TO PHILOSOPHICAL LITERATURE.

Messrs. BALLARD and KING-FARLOW.

3 credit hrs.

Training in the reading of philosophical literature. Classical and contemporary authors, chosen to exemplify the different basic types of philosophical thought, will be discussed. This course may be taken to meet part of the sophomore requirement in connection with the Humanities. Three class hours per week. *Elective for Sophomores. Second semester.*

23. LOGIC AND SCIENTIFIC METHOD.

3 credit hrs.

Professor EPSTEIN.

The basic character of scientific knowledge; the fundamental principle of inference operative in experimental inquiry; an introductory discussion of representative philosophical interpretations of the foundations of science. Material taken from the physical, biological and social sciences will be treated from the standpoint of three main topics: (1) Concept formation and formulation of hypotheses, (2) Formal logic and the deductive development of theories, (3) Statistical inference and the verification of hypotheses. (No previous training in the sciences or philosophy is presupposed.) Three class hours per week. *Elective for Sophomores. First semester.*

24. ETHICS. Mr. BALLARD.

3 credit hrs.

The bases of morality; theory of the moral life; moral issues involved in social problems. This course may be taken to meet part of the sophomore requirement in connection with the Humanities. Three class hours per week. *Elective for Sophomores. Second semester.*

26. INTRODUCTION TO THE PHILOSOPHY OF SCIENCE.

Professor EPSTEIN.

3 credit hrs.

An examination of experimental and theoretical procedures of the physical and social sciences. Fundamental and Derived Measurement,

Comparative and Quantitative concepts, Definition and Reduction as methods of concept formation are among the subjects studied in their relations to the logic of Prediction and Explanation and to the Verification and Falsification of theoretical systems. The results are brought to bear on such representative views in the philosophy of science as Emergentism, Operationalism, Positivism and Logical Empiricism. Three class hours per week. *Elective for Sophomores. Second semester. (Omitted 1961-62.)*

41S. PHILOSOPHY OF EDUCATION.

3 credit hrs.

Professor KENNEDY.

A comparative and critical study of contemporary theories of education, in terms both of their historical origins and of current problems and controversies. Three class hours per week. *Elective for Juniors. Second semester.*

43. HISTORY OF ANCIENT AND MEDIEVAL PHILOSOPHY.

Mr. KING-FARLOW.

4 credit hrs.

A survey of European philosophy from the early Greeks to the end of the Middle Ages, with emphasis on Plato, Aristotle, the Stoics, the Epicureans and some Christian philosophers. Reading and discussion of selected works of the period. Four class hours per week. *Elective for Sophomores. First semester.*

44. HISTORY OF MODERN PHILOSOPHY.

4 credit hrs.

Professor EPSTEIN.

A survey of European philosophy in the seventeenth, eighteenth, and nineteenth centuries, with emphasis on Descartes, Spinoza, Locke, Hume, and Kant. Reading and discussion of selected works of the period. Four class hours per week. *Elective for Sophomores. Second semester.*

45. PHILOSOPHY OF RELIGION. Professor PEMBERTON. 3 credit hrs.

(Same course as Religion 45.) An examination of some basic religious concepts in the light of philosophical analysis. Among topics to be considered are the nature and status of religious knowledge, the existence and nature of God, and some religious views of human nature and conduct. Three class hours per week. *Elective for Juniors. First semester.*

47. AMERICAN PHILOSOPHY. Professor KENNEDY. 3 credit hrs.

A study of the modern period in American thought. Reading and discussion of works by Peirce, James Royce, Santayana, Veblen, Dewey, and others. *Elective for Juniors. First semester.*

49. CONTEMPORARY RELIGIOUS THOUGHT.

3 credit hrs.

Professor PEMBERTON.

(Same course as Religion 49.) *Elective for Juniors. First semester. (Omitted 1961-62.)*

51. AESTHETICS. Professor KENNICK.

3 credit hrs.

A comparative and critical examination of the principal theories of the nature of art, the creative process, aesthetic experience, "beauty" or aesthetic value, and of the principles of appreciation and the standards of

criticism. Special emphasis is placed upon the thought of modern philosophers and critics. Three class hours per week. *Elective for Juniors. First semester. (Omitted 1961-62.)*

53. PLATO AND ARISTOTLE. Mr. KING-FARLOW. 4 credit hrs.

(Same course as Classics 53.) Several major works by each of these philosophers will be read in their entirety and discussed in class. The chief aim of the course will be to achieve a comprehension of the major philosophical positions of these writers, though some attention will also be paid to the historical development, the antecedents, and the subsequent influence of their ideas. All readings will be in English. Three class hours per week. *Elective for Juniors. Limited to twenty-five students. First semester.*

71. TOPICS IN PHILOSOPHY: PROBLEMS IN

ETHICAL THEORY. Mr. BALLARD.

4 credit hrs.

A critical examination of representative ethical theories, from both historical and contemporary sources, with particular emphasis upon the problems involved in determining the nature of moral action. Reading and discussion of selected works of Plato, Aristotle, the Stoics, the Epicureans, Hume, Kant, G. E. Moore, W. D. Ross, A. J. Ayer, and R. Niebuhr. Requisite: Two semester courses in philosophy, or the consent of the instructor. One two-hour period per week. *Elective for Juniors. First semester.*

72. TOPICS IN PHILOSOPHY: SOCIAL PHILOSOPHY.

Professor KENNEDY.

4 credit hrs.

A critical examination of various attempts to formulate a methodology for the social sciences. Among the topics considered are: the nature of social action; personality, society and culture; the sociology of knowledge; "historicism" and "scientism"; scientific method and value judgments; the relation between social theory and social policy. The readings will be chosen from such writers as Marx, Durkheim, Weber, Freud, Mannheim, Radcliffe-Brown, Myrdal and Dewey. Requisite: a grade of B in two semester courses in one of the following subjects: philosophy, psychology, political science, economics or history. One two-hour period per week. *Elective for Juniors. Limited to fifteen students. Second semester.*

74. METAPHYSICS. Professor KENNICK.

1 credit hr.

A comparative and critical examination of some metaphysical concept (e.g., Substance, Event, Time) or of the answers, both classical and modern, to some metaphysical question. This examination will not be made for historical purposes but will presuppose some knowledge of the major figures in the history of philosophy. Requisite: Philosophy 43 and Philosophy 44, or the consent of the instructor. One class hour per week. *Elective for Seniors. Second semester. (Omitted 1961-62.)*

79. CONFERENCE COURSE. The Department.

4-8 credit hrs.

Required of candidates for honors in philosophy. Detailed outline of thesis and adequate bibliography for project required before Thanks-

giving; preliminary version of substantial portion of thesis by end of semester. *Elective for Seniors. First semester.*

80. CONFERENCE COURSE. The Department. *4-8 credit hrs.*

Required of candidates for honors in philosophy. *Elective for Seniors. Second semester.*

Physical Education

Professors ECKLEY, LUMLEY, RICHARDSON, ROSTAS and WILSON; Associate Professors DUNBAR, MCCABE and OSTENDARP; Assistant Professors MILLER, SCANDRETT and SERUES; Mr. VAN PETERSILGE.

Complete physical examination, physical fitness tests, special exercises for individual development and a program of instruction and participation in team games and sports. *Required for Freshmen and Sophomores and men who have not met the department standards in swimming, fitness, team games, and recreational sports.*

Physics

Professors ARONS, BENSON, and SOLLER; Associate Professors ROMER and TOWNE; Assistant Professors DEMPEY and GORDON.

Any student considering a major in physics should seek the advice of a member of the Department as early as possible in order to work out a program best suited to his interest and ability, whether he is considering a career in physics, engineering, secondary school science teaching, one of the inter-science fields such as biophysics, or a non-scientific career. A prospective physics major should not fail to complete Math 3 and Physics 24 by the end of his sophomore year. Students interested in majoring in biophysics should consult the separate biophysics listings.

Course requirements for the Class of 1962 only: essentially those listed in the College Catalog of 1960-61, with slight necessary alterations, so that the following will apply for this class: Physics 24, 51, 52, 53, 76, 62, except that 62 is to be replaced by 54, 75, 79, 80 for honors candidates. The balance of the 30 hours required for any major may be any courses beyond the sophomore science requirement in astronomy, biology, chemistry, geology or mathematics.

For the Class of 1963, and following classes, the minimum course requirements for a physics major are as follows: Math 31, Physics 24, 51, 52S, 55, 60, and one additional physics course, plus any courses beyond the sophomore science requirement in astronomy, biology, chemistry, geology or mathematics, to total 30 credit hours. In addition, all physics majors will attend the Physics Seminar during their junior year, and will participate actively in it in the senior year. A major is required to take written comprehensive examinations at the end of each semester of the senior year. The first examination will test general understanding at approximately the

level of Physics 24. The second will call for comprehension at the more sophisticated level of the junior and senior courses.

The normal course requirements for a major with honors are the specific courses listed above, plus Math 32, Physics 57, 58, 74, 75, 79, 80. Upon consultation with the Department, these requirements may be altered to fit the needs of individual students. At the end of the first semester of the senior year, the student's performance on the first comprehensive examination, together with his progress on his honors problem will determine the advisability of his being allowed to continue the honors program.

The aim of honors work in physics is to provide an opportunity for the student to develop under faculty direction his ability and interest in individual investigation, and his skill in experimental or theoretical techniques. The primary fields of experimental research in progress in the department are low temperature physics, nuclear magnetic resonance, mass spectrometry and oceanography. In addition, however, experimental equipment is available for work in some phases of magnetism, ultrasonics, optics, electronics, and nuclear physics. The student is given facilities to review the literature in the field chosen, to design, construct and assemble his experiment equipment, to perform experiments, and finally to prepare a thesis, which is due on May 1. During the spring, he will also present his work in the Physics Seminar, and at the end of the second semester, he will take an oral examination, in addition to the written comprehensive examination required of all physics majors (see above). This oral examination is largely devoted to the student's thesis and to questions suggested by his work on the written comprehensive examinations.

The departmental recommendation for the various degrees of honors will be based on the student's record in the Department, the honors work, and the comprehensive and oral examinations.

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|------------------------------|---------------|
| 1. Same course as Science 1. | 4 credit hrs. |
| 2. Same course as Science 2. | 4 credit hrs. |

23. INTERMEDIATE PHYSICS. Professor BENSON. 4 credit hrs.

A course designed primarily for students not majoring in the physical sciences, extending the work done in Science 1, 2 and discussing more fully such topics as periodic motion, electricity and magnetism, electronics, and modern physics. Four hours of lectures and classroom discussions, and one laboratory period per week. Requisite: Science 1, 2. *Elective for Sophomores. First semester.*

24. INTRODUCTORY COURSE FOR PHYSICAL SCIENTISTS.

Professor DEMPSEY.

4 credit hrs.

A course which takes up various blocks of subject matter and essential physical concepts not covered in Science 1, 2, with emphasis on areas such as the first and second laws of thermodynamics, electrical and mechanical oscillations, and electric and magnetic fields. This course is a prerequisite

for all following physics courses, and is therefore required for all physics majors. Students not majoring in physics but who intend to include advanced physics courses in their program should elect this course rather than Physics 23. Four hours of lectures and classroom discussions and one laboratory period per week. Requisite: Science 1, 2, Math 3, unless exception is granted in advance by the instructor. *Elective for Sophomores. Second semester.*

51. MECHANICS. Professor DEMPESEY. 3 credit hrs.

Newtonian dynamics from a vector point of view. Special emphasis is placed upon central force motions, the two body problem, and moving reference frames. Three hours of lectures and discussions per week. Requisite: Physics 24, concurrent registration in Mathematics 31. *Elective for Juniors. First semester.*

52S. WAVE PHENOMENA. 4 credit hrs.

General characteristics of wave motion—the wave equation, energy relationships, diffraction, interference, reflection, refraction and polarization. Each phenomenon will be discussed in the context of either optics or acoustics depending upon the relative importance of its applications in the two fields. In alternate weeks four classroom hours or three classroom hours and one laboratory. Requisite: Mathematics 31, Physics 24. *Elective for Juniors. First semester. (Omitted 1961–62.)*

55. ELECTRICAL MEASUREMENTS AND ELEMENTARY
ELECTRONICS. Professor SOLLER. 2 credit hrs.

Assigned reading, problems and laboratory work dealing with a-c circuits, the measurement of electrical and magnetic quantities, and the fundamentals of electronic devices and their uses as rectifiers, amplifiers, and oscillators. One class meeting and one laboratory period per week. Requisite: Physics 24. *Elective for Juniors. First semester.*

57. ELECTROMAGNETIC THEORY, I. 2 credit hrs.
Professor ROMER.

This course and Physics 58 deal with the theory of electromagnetic fields in vacuum and in material media. Electrostatics, potential theory, macroscopic theory of dielectrics, electrostatic energy. (Physics 57 may be elected without also electing Physics 58.) Two class hours per week. Requisite: Physics 24, concurrent registration in Mathematics 31. *Elective for Juniors, first semester.*

58. ELECTROMAGNETIC THEORY, II. 3 credit hrs.
Professor ROMER.

Continuation of Physics 57. Currents, magnetic materials, magnetic vector potential, Maxwell's equations, electromagnetic waves, Poynting's theorem, radiation from an accelerated charge, relativistic treatment of electromagnetism. Three class hours per week. Requisite: Physics 57,

concurrent registration in Mathematics 32. *Elective for Juniors, second semester.*

60. INTRODUCTION TO MODERN PHYSICS. 4 credit hrs.

Professors BENSON and GORDON.

20th Century development in physics. Photoelectric effect, Bohr's quantum theory, atomic spectra and the vector model of the atom, x-rays, radioactivity, selected topics in nuclear physics, special theory of relativity. Three hours of lectures and discussion, and one laboratory period per week. Requisite: Physics 51. *Elective for Juniors. Second semester.*

62. EXPERIMENTAL PHYSICS. Professor SOLLER. 2 credit hrs.

Electronics and selected topics in experimental physics. Normally four hours of laboratory per week, interspersed with occasional lectures. Requisite: Physics 55. *Elective for Juniors. Second semester.*

73S. THEORETICAL PHYSICS. Professor ROMER. 4 credit hrs.

Advanced dynamics. Lagrangian and Hamiltonian formulations of classical mechanics; variational principles; Canonical transformations; Hamilton-Jacobi theory. Four hours of lectures or seminars per week. Requisite: Physics 52 and the consent of the instructor. *Elective for Seniors. Second semester. (Offered for last time in 1961-62.)*

74. QUANTUM MECHANICS. Professor TOWNE. 3 credit hrs.

Calculus of variations. Lagrangian and Hamiltonian formulations of classical mechanics. Heuristic introduction to concepts of Schrödinger wave mechanics. Expectation values, Ehrenfest's theorem, uncertainty principles. Application to square potentials, harmonic oscillator, hydrogen atom. Three hours of lectures and discussions per week. Requisites: Mathematics 32, Physics 52S, 58, 60. *Elective for Seniors. Second semester. (Omitted 1961-62.)*

75. THERMODYNAMICS. Professor ARONS. 4 credit hrs.

Generalization of the ideas of work, heat, energy. Mathematics of thermodynamics. First and Second Laws with applications to one component systems. Thermodynamic functions as criteria of equilibrium. Interpretation of thermodynamic laws and functions in terms of the behavior of aggregations of atoms and molecules. Requisite: For the Class of 1962 only: Physics 52, 54; for subsequent classes: Mathematics 32, Physics 58 or consent of the instructor. *Elective for Seniors. First semester.*

76S. MODERN PHYSICS. Professor GORDON. 4 credit hrs.

Changes in views of space, time, matter and radiation resulting from 20th century developments in physics. Special theory of relativity, black-body radiation, photo-electric effect, quantum theory of specific heats of solids and gases, Bohr's quantum theory, the wave aspects of matter and an introduction to the Schrödinger equation and the Heisenberg uncertainty principle. Application of the Schrödinger equation to some atomic systems. The exclusion principle and the modern explanation of

the periodic table. Some topics from nuclear physics. Requisites: Physics 52 and 53. *Elective for Seniors. First semester. (Offered for last time in 1961-62.)*

79-80. HONORS COURSE. The Department. 4-8 credit hrs.

Individual, independent work on some problem, usually in experimental physics. Reading, consultation and seminars, and laboratory work. *Elective for Seniors who have been admitted to the honors program. First and second semester.*

Political Science

Professors LATHAM* and ZIEGLER; Associate Professor SPIRO; Visiting Associate Professor GOODWIN (University of Massachusetts); Assistant Professor KATEB and Mr. REPASS.

Note: A major in political science consists of eight courses in political science. All majors are required to take 21 or 21S, Introduction to Political Science, and 31, American Government. For majors in the Department, 21 or 21S is a prerequisite or corequisite for all courses in the Department. In addition, the Department requires each major to take one of the courses in each of the following fields: Comparative Government, International Law and Relations, and Political Theory. *Rite* majors must take a seminar course in the Department in either their junior or senior year. Students not majors in the Department may take any course in the Department with the consent of the instructor.

The honors program is designed to provide students through advanced work in political science with the full opportunity for independent research and writing. In addition to the courses prescribed for all majors, honors candidates are required to take 79 and 80, and to prepare a substantial thesis based upon independent research, upon which they will be examined orally. In addition, they will be required to pass a written comprehensive examination on the four fields offered by the Department, in the spring of their senior year.

21. INTRODUCTION TO POLITICAL SCIENCE. 4 credit hrs.

Professor KATEB.

An analytical treatment of the role of politics in human society. Attention will be given to the theoretical and historical bases of political institutions, the social roots of political behavior, and the characteristics of the political process. Four hours of classroom work a week. Prerequisite or corequisite for all Political Science courses taken by Political Science majors. *Elective for Sophomores. First semester.*

21S. INTRODUCTION TO POLITICAL SCIENCE. 4 credit hrs.

Professor KATEB.

Same description as above. Prerequisite or corequisite for all Political

* Absent on leave 1961-62.

Science courses taken by Political Science majors. *Elective for Sophomores. Second semester.*

23. ELEMENTS OF MODERN POLITICS.

4 credit hrs.

Professor SPIRO.

A systematic introduction to the understanding of the political process in the modern world and an analysis of the interrelationship of state, government, and people in the formation and exercise of political power. Four hours of classroom work per week. *Elective for Sophomores. First semester.*

24. PATTERNS OF GOVERNMENT. Professor SPIRO.

4 credit hrs.

A comparative study of the functions, techniques, and institutions of political society as reflected by the different forms of states and government, with special emphasis on the theory and practice of contemporary democratic and autocratic government. Four hours of classroom work per week. *Elective for Sophomores. Second semester.*

25. AMERICAN CONSTITUTIONAL DEVELOPMENT. 4 credit hrs.

Professor LATHAM.

The development of American constitutional philosophy since 1787 under three general heads: the Agrarian Constitution, the Laissez-Faire Constitution, and the Welfare Constitution. Topics will include the Marshall and Taney eras, constitutional problems of slavery, the Civil War and Reconstruction, the constitutional foundations of 19th century capitalism, constitutional problems of federal and state regulation, civil liberties in the 20th century, the constitutional crisis of 1935-1937, and current problems of constitutional interpretation. Attention will be given to the judicial philosophies of the Federalist and Jacksonian judges, Field, Miller, Waite, Harlan, Holmes, Brandeis, Stone, Black, and Frankfurter. Four hours of classroom work per week. *Elective for Sophomores. First semester. (Omitted 1961-62.)*

27. POLITICAL PARTIES. Professor GOODWIN.

4 credit hrs.

The role of people, parties and pressure groups in the politics of American democracy. Attention will be devoted to: campaign activities of the candidates; party support for the candidates; voting behavior; sectional and historic roots of national politics; the institutional politics of Congress and the Presidency; the competition for power among business, labor, agriculture, and the other major organized interests. Three hours of classroom work per week plus participation and further work in political campaigns. *Elective for Sophomores. First semester.*

29. INTERNATIONAL POLITICS. Professor SPIRO.

4 credit hrs.

A critical analysis of the forces and techniques engaged in the ideological power conflict in the mid-twentieth century. The course will deal with the material and psychological elements of national power, the foreign policy of the Great Powers, the role of law, diplomacy and violence in present day world politics, and the prospects of peace or war in a bipolarized world.

Four hours of classroom work per week. *Elective for Sophomores. First semester.*

31. AMERICAN GOVERNMENT. Professor ZIEGLER. 4 credit hrs.

An introduction to the major problems of American democracy; their political, economic and social implications and their historical evolution. Politics and administration in their relation to constitutional government, federalism, suffrage, governmental functions, etc. Required for all majors in the Department. Four hours of classroom work per week. *Elective for Sophomores. First semester.*

35. ISSUES OF INTERNATIONAL POLITICS. 1 credit hr.

An analysis of relevant topics and currents of contemporary international politics. The selection of the issues will be conditioned by their significance for the conflict between power politics and peaceful cooperation. Lectures and discussion. One hour of classroom work per week. *Elective for Juniors. First semester. (Omitted 1961-62.)*

41. THE ADMINISTRATION OF PUBLIC POLICY. 4 credit hrs.

An introduction to the problem of bureaucracy in American government with attention to social factors that shape and condition administrative structures; group behavior in administrative agencies; the theory of organization in its formal and informal aspects; the political setting of public administration; problems involved in the formulation of American foreign policy. Four hours of classroom work per week. *Elective for Juniors. Limited to twenty students. First semester. (Omitted 1961-62.)*

42. ADMINISTRATIVE LAW. Professor ZIEGLER. 4 credit hrs.

An introduction to the American system of legal control exercised by other law administering agencies than the courts, with special reference to doctrines developed by the Interstate Commerce Commission, Securities and Exchange Commission, Federal Trade Commission, and the National Labor Relations Board. The course deals with the formulation of legislative purposes and administrative policies; administrative and judicial responsibilities for the enforcement of agency programs; and the nature and extent of judicial control over administrative action. Three hours of classroom work per week. Requisite: Political Science 25 or Political Science 41. *Elective for Juniors. Limited to 25 students. Second semester. (Omitted 1961-62.)*

44. INTERNATIONAL LAW. Professor ZIEGLER. 4 credit hrs.

The historical basis and present trends in the development of international law will be discussed and related to the social, economic, and political aspects of present day world politics and government. Four hours of classroom work per week. *Elective for Juniors. Second semester.*

45. COMPARATIVE POLITICAL INSTITUTIONS. 4 credit hrs.
Professor SPIRO.

A pragmatic approach to the causes and manifestations of the present world revolution, focusing on the political transformation under way in the

various states and on the correlation of social structure and political organizations. Major attention will be paid to important political documents. One three-hour seminar each week. *Elective for Juniors with the consent of the instructor; limited to fifteen students with the consent of the instructor. First semester. (Omitted in 1961-62.)*

46. THE ORGANIZATION OF THE INTERNATIONAL SOCIETY.

Professor SPIRO.

4 credit hrs.

A study of the political, economic, and social forces shaping international relations and their attempted solutions through international organization, with special emphasis on the United Nations and other methods of international cooperation. The course will be geared as closely as possible to current developments on the international scene. One three-hour seminar each week. *Elective for Juniors with the consent of the instructor; limited to fifteen students. Second semester.*

48. PROBLEMS IN PUBLIC POLICY AND ADMINISTRATION.

Professor GOODWIN.

4 credit hrs.

Selected topics in public policy and administration. One two-hour classroom meeting a week. *Elective for Juniors. Limited to twenty-five students with the consent of the instructor. Second semester.*

50. STATE AND URBAN PROBLEMS.

3 credit hrs.

Examination of state and urban problems resulting from contemporary patterns of growth and development; systematic study of state and local political environments in which urban problems are resolved; discussion of the roles played by political officials in these varying political environments. *Elective for Juniors. Second semester. (Omitted 1961-62.)*

57. POLITICAL THEORY FROM PLATO TO MACHIAVELLI.

Professor KATEB.

4 credit hrs.

A study of some of the major writers who have dealt with questions of political practice and political morality in a systematic way. Readings and discussion. Three hours of classroom work per week. *Elective for Juniors. Limited to twenty-five students. First semester.*

58. POLITICAL THEORY FROM HOBBS TO THE PRESENT.

Professor KATEB.

4 credit hrs.

A study of some of the major writers who have dealt with questions of political practice and political morality in a systematic way. Four hours of classroom work per week. *Elective for Juniors. Second semester.*

71S. PUBLIC OPINION.

4 credit hrs.

The role of public opinion in the politics of American democracy. Attention will be devoted to: measurement of opinion; the psychological organization of attitudes; the social and cultural sources of opinion; the rise, content, and impact of the mass media; politics in an era of mass communications. Three hours of classroom work per week plus participation in the design, administration and analysis of an opinion survey. *Elective for Juniors. Second semester. (Omitted 1961-62.)*

79-80. HONORS COURSE. The Department.

6 credit hrs.

Elective for Seniors who have satisfied the necessary requirements. First and second semesters.

Psychology

Professors KOESTER and COPLIN; Associate Professors BIRNEY and GROSE;
Assistant Professor DAVENPORT.

The offerings of the Psychology Department consist of two sets of courses: (a) general education courses in selected areas of psychological inquiry; (b) courses for students who major in psychology. The program of work for majors is designed to give the student a grasp of the major findings and developments in the field of psychology. The "core" portion of this program is made available in four consecutive semester courses offered during the junior and senior years and is arranged so that continual advantage may be taken of prior learnings when new material is introduced. The work of the "major" courses is organized around primary and secondary sources and the methods of instruction vary with the nature of the material being considered. Considerable emphasis is placed on the seminar method of instruction. Majors will be given the opportunity to pursue topics in greater depth by means of taking "Independent Study Courses" during the second semester of the junior year and during both semesters of the senior year. Training in research and the analysis of empirically derived data are provided in a junior course in "Research Methods in Psychology" which is required of all majors during the junior year.

Students honoring in the department do so by electing Psychology 79-80 in the senior year and completing a research project under the direction of some member of the department.

The requirements of a major in psychology consist of the following: (a) election of courses entitled "Introduction to Psychology," "Research Methods in Psychology," the "Junior and Senior Courses for Majors"; (b) the election of a minimum of an additional ten credit hours of work which may be done by taking "Independent Study Courses," the "Senior Honors Course," courses given under the heading of "General Courses," or certain courses in other departments, especially Biology or Philosophy, that are closely related to work in psychology; (c) passing a comprehensive examination.

Any student planning to major in psychology should elect Psychology 21 in the sophomore year.

A. General Courses

21. INTRODUCTION TO PSYCHOLOGY.

4 credit hrs.

Professor KOESTER.

An introduction to the nature and varieties of psychological inquiry with emphasis upon empirical findings and conceptualized determinants

of the behavior and experience of living organisms. Three lectures a week and a combination of laboratory and discussion sections. *Elective for Sophomores. First semester.*

21S. INTRODUCTION TO PSYCHOLOGY.

4 credit hrs.

Professor KOESTER

Same course as Psychology 21. *Elective for Sophomores only. Second semester.*

22. BEHAVIORAL ANALYSIS. Professor DAVENPORT.

3 credit hrs.

The attempt by experimental psychologists to formulate a set of basic principles from which complex behavior, both human and subhuman, may be derived. Topics include: the tenets of "operational behaviorism"; the strategy of stimulus-response analysis; the isolation of behavioral phenomena and variables; the Behavior Theory movement; and the contribution of liberalized stimulus-response concepts to the understanding of conflict, neurosis, higher mental processes, and social interaction. Three class meetings per week. Lectures, demonstrations, and discussion. *Elective for Sophomores. Second semester.*

26. ABNORMAL PSYCHOLOGY. Professor COPLIN.

3 credit hrs.

A study of the major classes of psychological disorder with particular attention to the causes and underlying mechanisms of the various abnormalities. Three class meetings per week. Requisite: Psychology 21. *Elective for Sophomores. Second semester.*

28. THE PSYCHOLOGY OF PERSONALITY.

3 credit hrs.

Professor BIRNEY.

An advanced treatment of approaches to the study of personality with emphasis upon relevant empirical findings and upon concepts that have been developed to understand the adjustments of the human organism to biological, social, and cultural events. Three class meetings a week. Requisite: Psychology 21. *Elective for Sophomores. Second semester.*

43. EDUCATIONAL PSYCHOLOGY. Professor GROSE.

3 credit hrs.

A psychological analysis of the educational process. The course is designed both for the prospective teacher and those who have a general interest in the field of education. One two-hour seminar a week. Requisite: Psychology 21. *Elective for Juniors with the consent of the instructor. Limited to fifteen students. First semester.*

45-46. RESEARCH METHODS IN PSYCHOLOGY.

Professors BIRNEY and DAVENPORT.

2 credit hrs. each semester.

A course aimed at giving the student an understanding of the variety of research methods used in contemporary psychological analysis. Attention will be given to statistical techniques widely used in the analysis and interpretation of research. Two class meetings a week and a selected number of afternoon sessions for laboratory research. Required of students majoring in psychology. Requisite: Psychology 21. *Elective for Juniors in the first and second semesters. (Psychology 45 omitted 1961-1962)*

47. DEVELOPMENTAL PSYCHOLOGY. 3 credit hrs.
Professor DAVENPORT.

A study of human development with emphasis upon the general characteristics of various stages of development from birth through adolescence and upon general determinants in the developmental process. One two-hour seminar a week. Requisite: Psychology 21 or 22. *Elective for Juniors. Limited to fifteen students. First semester.*

49. SOCIAL PSYCHOLOGY. Professor BIRNEY. 3 credit hrs.

A social psychological analysis of individual and group behavior with applications to selected social issues. Three class meetings a week. Requisite: Psychology 21. *Elective for Juniors. First semester.*

51. MARRIAGE AND THE FAMILY. Professor COPLIN. 1 credit hr.

An introduction to marriage and the family with emphasis upon psychological, biological, and sociological findings. One class meeting a week. *Elective for Juniors. First semester.*

B. Programs for Majors

Psychology 21, 45-46, 53-54, 73-74 are required of all majors. Psychology 56, 75, 76 may be elected by majors who are interested in opportunities for independent study. Psychology 79-80 is open to qualified senior majors.

21. INTRODUCTION TO PSYCHOLOGY.

Same as Psychology 21 in the "General Course" category. Offered during the first and second semesters.

45-46. RESEARCH METHODS IN PSYCHOLOGY.

Same as Psychology 45-46 in the "General Course" category.

53-54. JUNIOR COURSE FOR MAJORS. 3 credit hrs. each semester.

Prerequisite: Psychology 21. *First and second semesters.*

56. INDEPENDENT STUDY COURSE. 1 to 3 credit hrs.

Prerequisite: Psychology 53. *Elective for Junior majors. Second semester.*

73-74. SENIOR COURSE FOR MAJORS. 3 credit hrs. each semester.

Prerequisite: Psychology 53-54. *First and second semesters.*

75, 76. INDEPENDENT STUDY COURSES.

1 to 3 credit hrs. each semester.

Corequisite: Psychology 73-74. *Elective for Senior majors. First and second semesters.*

79-80. SENIOR HONORS COURSE. 4 credit hrs., first semester;

6 credit hrs., second semester.

Corequisite: Psychology 73-74. *First and second semesters.*

Public Speaking

Mr. ALLEN.

Note: The introductory courses, 21 and 22, are required of all sophomores except those who have demonstrated clear adequacy in oral communication in tests given in the freshman year by the Department. Students not exempted may be excused from Public Speaking 22 if the quality of their work in Public Speaking 21 justifies it.

Public Speaking 42 and 44 may be elected by students who have not taken Public Speaking 41 and 43.

Students with special speech problems should contact the Department so that clinical appointments may be scheduled.

21. FUNDAMENTALS OF PUBLIC SPEAKING. 1 credit hr.

Mr. ALLEN.

One hour of classroom work per week. *Required of Sophomores. First semester.*

22. FUNDAMENTALS OF PUBLIC SPEAKING. 1 credit hr.

Mr. ALLEN.

One hour of classroom work per week. *Required of Sophomores. Second semester.*

41. PERSUASION. Mr. ALLEN. 3 credit hrs.

Principles and methods of persuasion with practice in the preparation and delivery of various types of persuasive speeches. Three class meetings per week. *Elective for Juniors. First semester.*

42. ARGUMENTATION. Mr. ALLEN. 3 credit hrs.

The theory of argument with practice in the preparation and delivery of various types of argumentative speeches and debates. Three class meetings per week. *Elective for Juniors. Second semester.*

43. RHETORIC AND SPEECH CRITICISM. Mr. ALLEN. 4 credit hrs.

The study of rhetorical theory; ancient and modern. Speech criticism; theory and practice. Three class meetings per week. *Consent of the instructor required. Elective for Juniors. First semester. (Omitted 1961-62.)*

44. BRITISH AND AMERICAN PUBLIC ADDRESS. 4 credit hrs.

Mr. ALLEN.

History and criticism of British and American public address. Three class meetings per week. *Consent of the instructor required. Elective for Juniors. Second semester. (Omitted 1961-62.)*

Religion

Associate Professors B. MORGAN and PEMBERTON.

All courses in religion may count towards a major, which shall consist of

Religion 21, 22, Introduction to Religion, and six additional semester courses in religion or related studies approved by the Department.

Of these six additional courses at least three must be courses in religion, and it is recommended that they include Philosophy 43, 44, History of Philosophy.

The comprehensive examination in Religion will deal with the history of religious traditions and selected topics from the fields of Bible, religious ethics, and philosophy of religion. Further information may be obtained from members of the Department.

Honors in religion shall consist of the Conference Course Religion 79, 80 taken in conjunction with a major in religion; satisfactory fulfillment of the general honors requirements of the College; satisfactory performance in written comprehensive examinations on the general history of religious traditions and on Bible, Philosophy of Religion, or some other area of special interest to the student; and the preparation and oral defense of a scholarly essay on a topic approved by the Department.

21. INTRODUCTION TO RELIGION.

4 credit hrs.

Professor B. MORGAN.

The origins and nature of religion. Basic beliefs and practices of Confucianism, Hinduism, Buddhism, Judaism, and Islam as reflected in their scriptures and institutions. May be elected to fulfill part of the Humanities requirement. Four hours of classroom work per week. *Elective for Sophomores. First semester.*

22. INTRODUCTION TO RELIGION.

4 credit hrs.

The Christian heritage as reflected in the New Testament and the Christian classics. Basic Catholic and Protestant doctrines and practices. Some current trends in religious thought: modernism, humanism, and the new orthodoxy. May be elected to fulfill part of the Humanities requirement. Four hours of classroom work per week. *Elective for Sophomores. Second semester.*

23. THE OLD TESTAMENT. Professor PEMBERTON.

4 credit hrs.

Foundations of the Hebrew-Christian tradition in the literature and life of the Old Testament. May be elected to fulfill part of the Humanities requirement. Four hours of classroom work per week. *Elective for Sophomores. First semester.*

24. THE NEW TESTAMENT. Professor PEMBERTON.

4 credit hrs.

Foundations of the Christian tradition in the literature and life of the New Testament. May be elected to fulfill part of the Humanities requirement. Requisite: Religion 21 or 23, or consent of the instructor. Four hours of classroom work per week. *Elective for Sophomores. Second semester.*

45. PHILOSOPHY OF RELIGION. Professor PEMBERTON. 3 credit hrs.

An examination of some basic religious concepts in the light of philosophical analysis. Among topics to be considered are the nature and status

of religious knowledge, the existence and nature of God, and some religious views of human nature and conduct. Three hours of classroom work per week. *Elective for Juniors. First semester.*

48. RELIGION IN AMERICA. Professor B. MORGAN. 3 credit hrs.

A survey of the main currents of religious thought in America from colonial times to the present. *Elective for Juniors. Second semester.*

49. CONTEMPORARY RELIGIOUS THOUGHT. 3 credit hrs.

Professor PEMBERTON.

Analysis and comparison of the views of selected contemporary theologians and religious philosophers. (Same course as Philosophy 49.) Three hours of classroom work per week. *Elective for Juniors. First semester. (Omitted 1961-62.)*

52. CHRISTIAN SOCIAL ETHICS: STRUCTURE

AND PRACTICE. Professor B. MORGAN. 3 credit hrs.

A critical study of ethical teaching and practice in the biblical and church tradition, and of their contribution to a constructive Christian ethic in such areas as power politics, economic life, the meaning of sexuality, the "crisis in communication," and the meaning of racial and cultural difference. Representative Roman Catholic and Protestant theologians. *Elective for Juniors. Second semester. (Omitted 1961-62.)*

79. CONFERENCE COURSE. The Department. 4-8 credit hrs.

Selected topics of study; required of candidates for honors in religion. Detailed outline of thesis and adequate bibliography for project required before Thanksgiving; preliminary version of substantial portion of thesis by end of semester. *Elective for Seniors with the consent of the instructors. First semester.*

80. CONFERENCE COURSE. The Department. 4-8 credit hrs.

Selected topics of study; required of candidates for honors in religion. *Elective for Seniors with the consent of the instructors. Second semester.*

Russian

Assistant Professor RUBIN; Mr. DAVIS.

1. ELEMENTARY COURSE. Mr. DAVIS. 4 credit hrs.

Pronunciation, grammar, oral practice. Four hours per week of grammar and two hours of oral practice. *Elective for Freshmen. First semester.*

2. INTERMEDIATE COURSE. Mr. DAVIS. 4 credit hrs.

Four hours of grammar and two hours oral practice each week. Reading and analysis of selected texts. *Elective for Freshmen. Second semester.*

3. ADVANCED COURSE. Professor RUBIN. 4 credit hrs.

Reading and analysis of selected literary texts with some review of grammar and pronunciation. Four hours per week of reading and two hours oral practice. *Elective for Freshmen. First semester.*

4. ADVANCED COURSE. Professor RUBIN.

4 credit hrs.

Reading of literary texts from the 19th century and the modern period. Four hours per week of reading and two hours oral practice. *Elective for Freshmen. Second semester.*

5. READINGS IN 19TH-CENTURY RUSSIAN LITERATURE.

Professor RUBIN.

3 credit hrs.

An examination of the major prose works with special attention to the development of Russian prose style. *Elective for Freshmen. First semester.*

6. READINGS IN SOVIET LITERATURE. Professor RUBIN.

3 credit hrs.

A study of significant texts of Soviet Russian authors. *Elective for Freshmen. Second semester.*

Science

SCIENCE 1. Professors ARONS and BROWN in charge.

4 credit hrs.

A course in physical science and mathematics. The objectives of the course are: to show what is meant by a scientific concept and how scientists construct a conceptual scheme to obtain a deeper understanding of physical phenomena; to show how scientists work and reason and how such reasoning has led to discoveries which have influenced the development of our culture and the outlook of man toward the world around him; to impart some knowledge of physical laws and phenomena, particularly those which affect our everyday lives and actions.

To achieve these ends, no attempt is made to cover a wide range of subjects in the fields of physics and mathematics; rather, a limited number of subjects is studied with some care, so as to develop a more profound understanding than would otherwise be possible.

In physics, topics are selected from mechanics in such a way as to develop an understanding of the ideas which led to Newton's formulation of the laws of mechanics and the theory of gravitation and thence to indicate the impact which the Newtonian synthesis has had on the subsequent development of science and philosophy. Selected topics from electricity and optics are then introduced and, combined with the previously developed topics in mechanics, are used to show how we have arrived at our present conception of the structure of matter.

In mathematics, topics are selected from analytic geometry and calculus in such a way as to show how this science has arisen as a powerful independent discipline and how its tools, in turn, have profoundly influenced the development of physical science. An introduction to the theory of sets is included.

Mathematics, two hours; Physics, two hours; Laboratory, two hours. *Required for Freshmen. First semester.*

SCIENCE 2. Professors ARONS and BROWN in charge. 4 credit hrs.

The second semester of the course outlined above under Science 1.

Mathematics, two hours; Physics, three hours; Laboratory, two hours.
Required for Freshmen. Second semester.

SCIENCE 1-2 STAFF; Professors ARONS, BENSON, BREUSCH, BROWN, DEMPESEY, GORDON, LANGFORD, LOOMIS, ROMER, SOLLER, SPRAGUE, TOWNE, WILLCOX.

3S. CONCEPTS AND METHODOLOGY IN MODERN SCIENCE.

Professors ARONS and EPSTEIN. 4 credit hrs.

A course in physical science and philosophy, treating three great conceptual developments through which modern science has influenced the history of ideas and man's view of his place in the universe: relativity, the laws of thermodynamics, the quantum concepts. The point of departure is that reached at the end of Science 1, 2. Mathematical and physical concepts developed in the freshman course will be used throughout and will be extended where necessary. The scientific ideas will be developed with logical care and will be examined in their philosophical and historical context. The course is intended primarily as an elective for majors in humanities and the social sciences; it is not open to physics majors. Majors in other sciences may be admitted by permission of the instructors. *Elective for Sophomores. Second semester. Alternate years.*

21. CHEMISTRY-BIOLOGY SEQUENCE. CHEMISTRY. 4 credit hrs.

Professors BEEBE, KROFF and LANGFORD.

A study of substances, their structure, their properties and the reactions by which they are converted into other substances. Attention is given to the orientation of chemistry toward physics, biology and the other related sciences. Three hours classroom and four hours laboratory work per week. (Same course as Chemistry 21.) Requisite: Science 2. *Elective for Sophomores. First semester.*

22. CHEMISTRY-BIOLOGY SEQUENCE. GENERAL BIOLOGY.

The Staff. 4 credit hrs.

An introduction to biological principles integrated with the first semester chemistry which is arranged as part of a program of liberal study. Four classroom hours and two hours of laboratory work per week. (Same course as Biology 22.) *Elective for Sophomores. Second semester.*

23. ORGANIC EVOLUTION. Professor HEXTER. 4 credit hrs.

A study of the evolution of organisms including the genetic background of evolution, the evolution of structure and function and certain theoretical aspects of the subject. Four lectures and one two-hour laboratory per week. (Same course as Biology 23.) *Elective for Sophomores. First semester.*

23S. ORGANIC EVOLUTION. Professor BROWER. 4 credit hrs.

Same description as Science 23; same course as Biology 23S. *Elective for Sophomores. Second semester.*

41. INTRODUCTION TO THE HISTORY OF SCIENCE.

Professor YOURGRAU.

3 credit hrs.

History and method of mechanics from the 13th century to Hamilton and Lagrange. The historical development of axiomatic biology. Three class meetings per week. Requisite: Completion of the Amherst College science requirement or its equivalent. *Elective for Juniors. First semester.*

Spanish

Associate Professor JOHNSON; Assistant Professor CANNON;
Assistant

All *rite* majors in Spanish are required to elect 30 semester hours of courses offered or approved by the Department, including Spanish 7 or 7S, but excluding Spanish 1 and 3. All honors candidates are required to elect courses 7 or 7S, 10, 21, 22, 25, 26, 42, 79–80. This course program may be adjusted in certain cases. Honors candidates must present a thesis and pass a comprehensive examination in the history of Spanish literature and in the critical interpretation of texts. Beginning with the class of 1962, all majors must pass the comprehensive examination. A reading list will be furnished to aid in preparation for the examination.

A combined major in two languages may be arranged by consultation with the Department. For a student whose primary foreign language is Spanish, the major must include 20 credit hours in Spanish exclusive of Spanish 1 and 3. In the second language it must include ten hours, of which at least three must deal with literature. A comprehensive examination covering both fields will be given. A reading list will be made to suit individual cases.

Requirements for Sophomores in Humanities. The following courses are approved as satisfying the Humanities requirement in sophomore year: any course or combination of courses (numbered above 5, except Spanish 10) giving 4 credit hours.

1. ELEMENTARY COURSE.

4 credit hrs.

Professor CANNON and assistant.

This course will meet three hours a week for explanation and demonstration, and four hours a week in small sections for oral and aural practice. *Elective for Freshmen. First semester.*

3. INTERMEDIATE COURSE.

4 credit hrs.

Professor CANNON and assistant.

Review of grammar; oral and aural practice; study of selected texts. This course will meet three hours a week for explanation and demonstration, and three hours a week for oral and aural practice. Assignment to this course will be made on the basis of the score in the CEEB Achievement Test. *Elective for Freshmen. First semester.*

3S. INTERMEDIATE COURSE.

4 credit hrs.

Professor CANNON and assistant.

Same description as above. Requisite: Spanish 1, or the equivalent. *Elective for Freshmen. Second semester.*

5. ADVANCED COURSE.

4 credit hrs.

Professor JOHNSON and assistant.

The purpose of this course is to complete the student's training in reading and in aural comprehension. Six hours a week in the language laboratory and in class. Stress will be placed on the acquisition of aural comprehension of the language and on oral practice. Conducted in Spanish. Requisite: a satisfactory score in the CEEB Achievement Test, or Spanish 3, or the equivalent. *Elective for Freshmen. First semester.*

5S. ADVANCED COURSE.

4 credit hrs.

Professor CANNON and assistant.

Same description as above. Requisite: a satisfactory score in the CEEB Achievement Test, or Spanish 3, or the equivalent. *Elective for Freshmen. Second semester.*

7. INTRODUCTION TO HISPANIC CIVILIZATION.

4 credit hrs.

Professor JOHNSON.

This course will meet four hours a week for the reading and discussion of selected texts representing the drama, the novel, and poetry. Requisite: satisfaction of the language requirement. *Elective for Freshmen. First semester.*

7S. INTRODUCTION TO HISPANIC CIVILIZATION.

4 credit hrs.

Professor JOHNSON.

Same description as above. Requisite: satisfaction of the language requirement. *Elective for Freshmen. Second semester.*

10. COMPOSITION AND CONVERSATION.

4 credit hrs.

Professor JOHNSON.

Practice in conversation, composition and translation into Spanish. Three class and two laboratory hours a week. Requisite: permission of the instructor. *Elective for Freshmen. Second semester.*

21. SPANISH LITERATURE OF THE TWENTIETH CENTURY.

Professor CANNON.

4 credit hrs.

Three class hours a week. Requisite: permission of the instructor. *Elective for Sophomores. (Omitted 1961-62.)*

22. READINGS IN SPANISH AMERICAN LITERATURE.

Professor JOHNSON.

3-4 credit hrs.

This course will meet three times a week to read and discuss representative works by Spanish American writers. Students who do not wish to write a paper should sign up for 3 credit hours. Limited to 25 students. Requisite: permission of the instructor. *Elective for Sophomores. (Omitted 1961-1962.)*

25. THE SPANISH NOVEL. Professor CANNON. 4 credit hrs.

Three class hours a week. Requisite: permission of the instructor. *Elective for Sophomores. First semester.*

26. CERVANTES. Professor JOHNSON. 4 credit hrs.

This course will meet three hours a week to study the major prose works of Cervantes and their relation to the Golden Age. Emphasis on *Don Quixote de la Mancha*. Limited to 25 students. Requisite: permission of the instructor. *Elective for Sophomores. Second semester.*

27. HISPANIC AUTHORS. 1 credit hr.

This course will meet once a week to discuss some aspect of Hispanic literature. Requisite: permission of the instructor. *Elective for Sophomores. First semester. (Omitted 1961-1962.)*

28. HISPANIC AUTHORS. 1 credit hr.

Same description as Spanish 27. Requisite: permission of the instructor. *Elective for Sophomores. Second semester. (Omitted 1961-1962.)*

42. ADVANCED READINGS IN SPANISH LITERATURE.

The Department.

2-4 credit hrs.

The content of this course will be determined each year by the student in consultation with the Department. Students with special interests are invited to consider the possibilities of this course. Requisite: permission of the Department. *First and Second semesters.*

79-80. CONFERENCE COURSE FOR HONORS CANDIDATES.

4-6 credit hrs.

III

Lectureships

Honors

Fellowships

Prizes

Awards

Lectureships

THE HENRY WARD BEECHER LECTURESHIP

This lectureship fund of \$10,000 was founded by the late Frank L. Abbott, LL.D., of the Class of 1878, in honor of Henry Ward Beecher, of the Class of 1834. The incumbent is appointed biennially by the Faculty for supplementary lectures in the departments of history and the political, social, and economic sciences.

THE CLYDE FITCH FUND

A fund of \$20,000 was established by Captain and Mrs. W. G. Fitch of New York in memory of their son, Clyde Fitch, of the Class of 1886. The income of this fund is to be used for the furtherance of the study of English literature and dramatic art and literature. The whole or part of this income is usually devoted to the remuneration of an eminent lecturer, who may also take a part in the regular instruction of the College.

THE JOHN WOODRUFF SIMPSON LECTURESHIP

A fund now amounting to \$204,800 was established in memory of John Woodruff Simpson, of the Class of 1871, by his wife and daughter. The income is to be used for fellowships and "to secure from time to time, from England, France or elsewhere, scholars for the purpose of delivering lectures or courses of instruction at Amherst College."

THE GEORGE WILLIAM AND KATE ELLIS REYNOLDS LECTURESHIPS

A fund of \$150,000 established by the late George W. Reynolds of the Class of 1877 provides an annual income of approximately \$10,000 which is divided into three equal parts to provide lectureships on Christ and Christianity, Science, and American Democracy.

THE CHARLES E. MERRILL LECTURESHIP

A fund has been given by the late Charles E. Merrill of the Class of 1908 for a series of lectures and formal discussions on applied economics. Upon delivery, these lectures become the property of Amherst College for publication.

As in previous college years, a number of Merrill Lecturers will be brought to the College during 1961-1962 from the fields of government, business, labor, and agriculture.

Honors

THE PHI BETA KAPPA SOCIETY

The students elected to membership in this honor society are those of highest standing and are normally candidates for the degree with honors. A preliminary election of outstanding students occurs at the end of the first semester of Junior year; and further elections occur at the end of the first semester and at commencement time of Senior year. Membership in the society is extended to about a tenth of the students in each class.

Officers

President: G. ARMOUR CRAIG, '37

Vice-President: WILLARD L. THORP, '20

Secretary-Treasurer: WILLIAM H. PRITCHARD, '53

First, Second, and Third Elections, Class of 1961

Peter Berek	Stanley Hinman Masters
Charles Beecher Berryman	Landis Olesker
Peter Donald DeCicco	John Scott Parks
Earl Carlyle Dudley, Jr.	Philip M. Pochoda
William Bruce Dunkman	William Venable Rapp
John Carroll Fentress	Kenneth Roy Ratzan
Bruce Neil Goldreyer	Bert Walter Rein
Walter Dunlop Haynes	Gerald Stuart Shedler
Thomas Alexander Hopkins	Mark Lawrence Stiglitz
David Johnson, III	Frederick Carl Teiwes
Howard Henry Junker	Harold Eliot Varmus
Richard Benson Klein	Fred Lewis Wallace
John Amos Kneisly, II	Richard Stanley Wirtz
Frederick William Luttmann, IV	James Thornton Wood
Ralph Aubrey Young	

THE SOCIETY OF THE SIGMA XI

Sigma Xi, the National Honorary Scientific Research Society, was founded in 1886; the Amherst Chapter was installed March 23, 1950. As one of its purposes the Society gives recognition to those students, members of the faculty, and research associates who have demonstrated ability to carry on constructive scientific research or who show definite promise of research ability. Other functions are the maintenance of companionship among investigators in the various fields of science, the holding of meetings for the discussion of scientific subjects, and the fostering of an interest in scientific research in the College.

Undergraduates, masters candidates, and others who show definite promise of research ability may be recommended to associate membership by the departments concerned. In the case of undergraduates, nomination will be given only to those students whose promise of research ability would warrant recommendation for at least a degree *magna cum laude* (entirely aside from the question of grades). At present the chapter has a total membership of some 95 faculty and students.

Officers

President: Professor OSCAR E. SCHOTTE

Vice-President: Professor ROBERT H. ROMER

Secretary-Treasurer: Professor L. WILLARD RICHARDS

*Initiates—1961
to Full Membership*

Anne Droin
Joseph Epstein
Arthur S. Fairley

Robert Gale
Calvin Hastings Plimpton
Tamotsu Taketomi
Henry de Forest Webster

To Associate Membership

Pater D. DeCicco
William B. Dunkman
Fred J. Fechheimer
John C. Fentress
Jeffrey H. Gordon
Thomas A. Hopkins
John Amos Kneisly, II
Thomas E. Kohn

Joel T. Mague
Stanley H. Masters
Kenneth R. Ratzan
Gerald S. Shedler
Arthur R. Thompson, III
Robert S. Thompson
Robert G. Weiner
George C. Whitney, III

THE BOND FIFTEEN

From the fifteen Seniors who have attained the highest general standing at the end of the first semester of senior year, two speakers are selected upon the basis of literary and oratorical merit to deliver orations at the Class Day Exercises. The Bond Prize of one hundred dollars is awarded to the speaker who delivers the best oration.

The Bond Fifteen, 1961

Peter Berek	John Amos Kneisly, II
Charles Beecher Berryman	Frederick William Luttmann, IV
Peter Donald DeCicco	Stanley Hinman Masters
Earl Carlyle Dudley, Jr.	Bert Walter Rein
William Bruce Dunkman	Gerald Stuart Shedler
Thomas Alexander Hopkins	Mark Lawrence Stiglitz
David Johnson, III	Frederick Carl Teiwes
Richard Stanley Wirtz	

DELTA SIGMA RHO

Delta Sigma Rho was founded in 1906; the Amherst Chapter was admitted in 1913. The purpose of Delta Sigma Rho is to encourage sincere and effective public speaking and to recognize achievement in this field of endeavor. To qualify for membership students must have participated in intercollegiate debating and be in the top 35% of their class. Members-at-large may be elected to recognize outstanding contributions to forensics.

Member-at-large: Professor STEWART LEE GARRISON

Graduate Members: Mr. JAMES ALFRED GUEST
Professor HUGH DODGE HAWKINS
Professor WILLARD LONG THORP

Undergraduate President: MARK L. STIGLITZ, '61

Fellowships

The College's funds for fellowships aggregate \$518,000. From the income of these funds fellowships are awarded annually to graduates of Amherst College, and in some instances to graduates of other colleges, for study in graduate or professional schools. Applications should be made in writing to the Dean before March first.

The names of those to whom fellowships have been awarded for the current year will be found on page 14.

THE AMHERST-DOSHISHA FELLOWSHIP

Amherst-Doshisha Fellowship at Amherst House, Doshisha University, Kyoto, Japan. An opportunity to work in a bi-cultural setting with Professor Otis Cary, Director of Amherst House, is open to young alumni of the College for a term of one, or in some cases, two years. Travel expenses and a modest stipend are paid by the College. The recipient will be given the opportunity of assisting Otis Cary in the activities of Amherst House and also in teaching English to Japanese students. No knowledge of Japanese is required.

THE AMHERST MEMORIAL FELLOWSHIPS FOR THE STUDY OF SOCIAL, ECONOMIC, AND POLITICAL INSTITUTIONS, AND FOR PREPARATION FOR TEACHING AND THE MINISTRY

A fund of \$116,900 provides fellowships to perpetuate the memory of those Amherst men who gave their lives for an ideal. The following statement expresses the purposes of the donor of these fellowships: "Realizing the need for better understanding and more complete adjustment between men and existing social, economic, and political institutions, it is my desire to establish a fellowship for the study of the principles underlying these human relationships."

Appointments to these fellowships may be made from the graduating class or the alumni of Amherst College or of other colleges, the object being to permit men of character, scholarly promise, and intellectual curiosity to investigate some problem in the humanistic sciences. Candidates should be men of sound health. During previous training they should have given evidence of marked mental ability in some branch of the social sciences—history, economics, political science—and have given promise of original contribution to a particular field of study. It is desirable that they possess qualities of leadership, a spirit of service, and an intention to devote their efforts to the betterment of social conditions through teaching in its broad sense, journalism, politics, or field work.

While preference is given to candidates planning to do advanced work in the field of the social sciences, applications will be accepted and awards made to candidates who are planning to go to theological school as a preparation for a career in the ministry and to those from other fields

than the social sciences who are preparing for a career in teaching in secondary schools or colleges.

Appointments may be made for terms of two years. Tenure may, however, be shorter or longer, depending upon the nature of the subjects investigated or upon other circumstances which, in the judgment of the committee, warrant a variation in the length of tenure.

The stipend will vary according to the circumstances of the appointment. Awards will depend upon those aspects of individual cases which, in the judgment of the committee, most suitably fulfill the purpose of the foundation.

These fellowships will be awarded by the Board of Trustees upon the recommendation of the Faculty Fellowship Committee.

THE HENRY P. FIELD FELLOWSHIPS

Two fellowships of \$500 each are available from the income of the bequest of the late Henry P. Field of the class of 1880, to promote graduate study in the fields of English and History. Appointments are made annually by the College on the recommendation of the departments of English and History.

THE EDWARD HITCHCOCK FELLOWSHIP

The income from a fund of \$20,000 founded by the late Mrs. Frank L. Babbott of Brooklyn, N. Y., is available for the promotion of graduate study in the department of physical education. Its object is to make the student familiar with the best methods of physical training, both in the gymnasium and on the field. The appointment is made by the Faculty.

THE ROSWELL DWIGHT HITCHCOCK MEMORIAL FELLOWSHIP

A fund of \$8300, established through the agency of the Alpha Delta Phi Fraternity, provides an annual award under conditions determined by the Faculty, to a member of the senior class for excellence in history and the social and economic sciences. The holder of the Fellowship pursues for one year, at an institution approved by the Faculty, a course of study in history or economics, to be completed within the period of two years next following graduation. The amount of the Fellowship is paid in two installments, one on completion of one-half the year's work, the other at the end of the year.

THE RUFUS B. KELLOGG UNIVERSITY FELLOWSHIP

The income from a fund of \$54,500 established by the late Rufus B. Kellogg of the Class of 1858 provides certain prizes, and a fellowship award for three years to an alumnus of Amherst College, who shall be appointed upon the following conditions:

1. He shall be elected by the Faculty from the members of the class graduated at the close of the academic year in which this election shall

be made, or from the members of the classes graduated in the six years immediately preceding the academic year in which this election shall be made.

2. The faculty shall select as the incumbent of the said Fellowship the man who, in their judgment, is best equipped for study and research, without regard to any other considerations whatsoever, except that he should have an especially good knowledge of at least one modern foreign language and should have had at least one year of Latin in preparatory school or college.

3. The three years shall be spent by the incumbent at a German University, or with the approval of the said Faculty at any other place or places, in the study of philosophy, philology, literature, history, political science, political economy, mathematics or natural science. At least one college term of the final year shall be spent by the incumbent at Amherst College, where he shall give a series of not more than thirty lectures on a subject selected by himself and approved by the Trustees. The lectures shall be given to the Senior class, but the members of all other classes shall have the privilege of attending. The incumbent shall have his lectures published, at the end of his official term, in good book form, or in a learned journal.

THE KRUPP FELLOWSHIP

A fellowship of \$2500 is to be awarded annually either to a member of the senior class, a graduate of the College, or a member of the Faculty, with preference in that order, for advanced study in any field at a German University.

In the event a recipient under the above categories is not available in any one year, a smaller award may be made to an undergraduate for summer study in Germany.

The recipient of either the regular fellowship or the summer award must have a good command of reading and oral German.

The selection of the Krupp Fellowship will be made by the Faculty Fellowship Committee in consultation with the German Department.

THE EDWARD POOLE LAY FELLOWSHIP

The income from a fund of \$39,100, established by Frank M. Lay, of the class of 1893, and Mrs. Lay, in memory of their son Edward Poole Lay, of the class of 1922, provides for a fellowship to be awarded to a graduate of Amherst College who has shown unusual proficiency and talent in music, and who desires to continue his studies in this field. Preference is to be given to a candidate who is proficient in voice. In the event that there is no qualified candidate for the award in any one year in the musical arts (especially voice and instrumental music), then it may be awarded under the same conditions to a qualified candidate in the field of the dramatic arts.

This fellowship will be awarded by the Board of Trustees upon the recommendation of the Faculty Fellowship Committee.

THE JAMES INGRAM MERRILL AWARD

A fellowship of \$1,000 is available for a member of the graduating class, or a recent alumnus, who has done outstanding work in the field of English to assist him in graduate study at a University of his choice. The award may be made for either scholarly promise or for ability in creative writing. The award is to be made by the Fellowship Committee upon recommendation from the English Department.

THE FORRIS JEWETT MOORE FELLOWSHIPS

These fellowships, three in number, were established in memory of Forris Jewett Moore of the class of 1889 by his widow, Emma B. Moore. In each case, the beneficiary is to be a member of the graduating class of the year preceding that in which he holds the Fellowship.

1. A fund of \$22,700, the income of which is to be used to assist some graduate of Amherst College who has distinguished himself in the study of chemistry while an undergraduate, and who desires to engage in further study of that subject. Preference is to be given to eligible candidates whose plans lie in the field of organic chemistry.

2. A fund of \$18,600, the income of which is to be awarded to a graduate of Amherst College who has distinguished himself in the study of history while an undergraduate, and who desires to engage in further study of that subject.

3. A fund of \$22,700, the income of which is to be awarded to a graduate of Amherst who has distinguished himself in the study of philosophy while an undergraduate and who desires to engage in further study of that subject.

THE GEORGE STEBBINS MOSES MEMORIAL FELLOWSHIP

The income from a memorial fund provides a fellowship to be awarded to an Amherst graduate each year who has been accepted by a recognized divinity school, who has good reason to seek financial aid, who seems to be an all-around man qualified in all respects as a religious and moral leader and a lover of ordinary people, and who is qualified scholastically to meet the calling of a theological career creditably. The candidate need not be an outstanding student, but improvement in the upperclass years, dedication, and a sense of purpose will be given great consideration.

The recipient will be selected by the Fellowship Committee acting with the College Chaplain and, ordinarily, will be awarded on an annual basis but, under appropriate circumstances, it may be renewed for a second or third year at the discretion of the Committee. If the income and needs of candidates permit, more than one fellowship may be awarded in any given year.

THE GEORGE A. PLIMPTON FELLOWSHIPS

These fellowships, established by the Board of Trustees of Amherst College in memory of George A. Plimpton of the class of 1876, a member of the Board from 1890 to 1895 and from 1900 to 1936, and President of the Board from 1907 to 1936, are to be awarded without stipend to members of the senior class who are of outstanding scholastic ability and promise, who plan to continue their studies in graduate school, and who are not in need of financial assistance.

These fellowships will be awarded by the Board of Trustees upon recommendation of the Faculty Fellowship Committee.

THE SHERMAN PRATT FACULTY FELLOWSHIPS FOR STUDY ABROAD

These fellowships are awarded by the President of the College to younger members of the Amherst Faculty, on the basis of past performance in teaching, scholarship, and programs for further study. The stipends may be fixed in such amount as the President may determine. Each holder of a Sherman Pratt Fellowship will be expected on his return to the College to deliver to the college body one or more lectures.

THE JOHN WOODRUFF SIMPSON FELLOWSHIPS AND LECTURESHIPS

A fund now amounting to \$204,200 was established in memory of John Woodruff Simpson of the class of 1871, by his wife and daughter. The uses of the income as defined by the donors follow:

"1. To award to any graduate of Amherst College a fellowship for use in studying law at any school approved by the Board of Trustees of the College;

"2. To award to any graduate of Amherst College a fellowship for use in studying medicine at any school approved by the Board of Trustees of the College;

"3. To award to any graduate of Amherst College a fellowship for use in studying theology at any school approved by the Board of Trustees of Amherst College, without regard to the particular creed or particular religious belief taught thereat;

"4. To award to any graduate of Amherst College a fellowship for use in studying at any school, college or university approved by the Board of Trustees of the College, in preparation for the teaching profession;

"5. To award to any graduate of Amherst College a fellowship for use in graduate study at the universities of Oxford or Cambridge in England;

"6. To award to any graduate of Amherst College a fellowship for use in graduate study at the Sorbonne in Paris;

"7. To secure from time to time from England, France or elsewhere, scholars for the purpose of delivering lectures or courses of instruction at Amherst College."

These fellowships will be awarded by the Board of Trustees upon the recommendation of the Faculty Fellowship Committee.

THE BENJAMIN GOODALL SYMON, JR. MEMORIAL FELLOWSHIP

The income from a memorial fund provides a fellowship to be awarded to an Amherst graduate each year who has been accepted by a recognized divinity school, who has good reason to seek financial aid, who seems to be an all-around man qualified in all respects as a religious and moral leader, and who is qualified scholastically to meet the calling of a theological career creditably, although he may plan to use the divinity school training for work in another field. The candidate need not be an outstanding student, but improvement in the upperclass years, dedication, and a sense of purpose will be given great consideration.

The recipient will be selected by the Fellowship Committee acting with the College Chaplain and, ordinarily, will be awarded on an annual basis but, under appropriate circumstances, it may be renewed for a second or third year at the discretion of the Committee. If the income and needs of candidates permit, more than one fellowship may be awarded in any given year.

FELLOWSHIPS AWARDED BY THE AMERICAN SCHOOLS OF CLASSICAL STUDIES AT ATHENS AND ROME

The attention of graduate students interested in the Classics and in Archaeology and Ancient Art is called to the opportunities offered by the American Schools of Classical Studies at Athens and Rome. As the College contributes regularly to the support of these schools, any Amherst graduate may enjoy the privileges of study at either school without charge for tuition and may compete for the annual fellowships which they offer. Further information may be obtained from any classical teacher at the College.

COLUMBIA—AMHERST MEMORIAL FELLOWSHIP IN HISTORY

This fellowship offered jointly by Amherst and Columbia is open to Amherst students in the graduating class for the study of History (preferably European History) at Columbia University. The stipend is determined on the basis of need but may be as much as \$2500. It may be renewed for a second year if a student's record justifies such a renewal.

YALE—AMHERST MEMORIAL FELLOWSHIP IN HISTORY

This fellowship offered jointly by Amherst and Yale is open to Amherst students in the graduating class for the study of History (preferably American History) at Yale University. The stipend is determined on the basis of need but may be as much as \$2500. It may be renewed for a second year if a student's record justifies such a renewal.

Prizes and Awards

The following prizes are offered annually for proficiency in the work of the several departments of collegiate study, and for other qualifications. The recipients of awards for the previous year are named in each case.

American Studies

THE GEORGE ROGERS TAYLOR PRIZE, to be awarded annually to the sophomore who in the opinion of the American Studies Department shows most promise for creative and scholarly work in the field of American Studies.

ALVIN KEITH KLEVORICK, '63

Art

THE ANNA BAKER HEAP PRIZE, from the income of a fund of \$1,800, established by the late Arnold N. Heap of the class of 1873; \$125 is awarded to that Senior who submits the best essay in the field of "Art."

HARRY DENNY, III, '61

Biology and Geology

THE HARVEY BLODGETT SCHOLARSHIP, from the income of a fund of \$2,700, established by Frederick H. Blodgett in memory of his grandfather, Harvey Blodgett of the class of 1829, is awarded to aid student work in biology and geology in their educational phases as distinct from their more technical and strictly scientific phases: combined with

THE PHI DELTA THETA SCHOLARSHIP, from the income of a fund of \$600, established by the Phi Delta Theta Fraternity, is awarded as a scholarship at the Woods Hole Marine Laboratory to a student for proficiency in biology.

(The two preceding scholarships usually are combined, with a single award of \$215.)

Divided among: MICHAEL HENRY DIEM, '62

STUART HARTLEY HURLBERT, '61

JONATHAN REISKIND, '62

Chemistry and Medicine

THE HOWARD WATERS DOUGHTY PRIZE, from the income of a fund of \$1,100, given anonymously; \$75 is awarded to that member of the junior class who, in the opinion of the chemistry department, is best qualified to undertake an honors program.

PETER NORMAN ROSENTHAL, '62

THE FRANK FOWLER DOW PRIZES, part of the income from a fund established by Fayette B. Dow, '04, in memory of his father; \$300 is awarded to a member or members of the junior or senior class preparing to enter medical school and whose undergraduate work indicates a career of usefulness and distinction in medicine.

WILLIAM BRUCE DUNKMAN, '61

Dramatics

THE RAYMOND KEITH BRYANT PRIZE, an annual gift of \$25 from Robert E. and Ethel M. Bryant in memory of their son, Raymond Keith Bryant, of the class of 1936, is awarded to that undergraduate who, in the opinion of a board of judges, gives the best single performance of the year in a Masquers' play.

MICHAEL RAGNAR NAESS, '61

THE HERBERT E. MAYER PRIZE, of \$100, provided by a gift from Robert Primack, of Lakewood, New Jersey, in honor of the services to community theater by Herbert E. Mayer of the class of 1935, is awarded annually to that undergraduate who in the opinion of the Dramatic Arts Department has shown outstanding achievement both in courses in Dramatic Arts and in theater work.

PETER LANE DURYEA, '62

Economics

THE W. T. AKERS, JR. PRIZE of \$50, provided by an annual gift from W. T. Akers, Jr., of the class of 1927, is awarded to that undergraduate who has, in the opinion of the economics department, written and submitted the best honors essay in economics.

WALTER DUNLOP HAYNES, '61

THE HAMILTON PRIZE, established by his former students in memory of Professor Walton Hale Hamilton, distinguished member of the Department of Economics from 1915 to 1923, consisting of a collection of economics books, is awarded to that student other than a senior who ranks highest in the introductory economics course.

JOSEPH EUGENE STIGLITZ, '64

THE MERRILL CENTER PRIZE, a prize of \$100 to be given to that member of the senior class who, in the opinion of the Economics Department, has written an honors thesis of distinction upon a subject related to capital formation and economic growth.

No Award

THE SYLVESTER AWARD, supported by an annual gift from Albert L. Sylvester of the class of 1924, goes to the junior majoring in economics, who has shown himself outstanding in his work in that Department while

maintaining a worthy general average. If the recipient is already on the scholarship list, the award is \$750; if not, the award is a prize of \$100 and the remainder goes to Converse Library for the purchase of books in economics.

RICHARD SIEGLER, '62

English

THE ACADEMY OF AMERICAN POETS PRIZE, of \$100, made possible by a gift of Harry Woodbourne, is awarded annually for the best poem or group of poems, preferably on nature, submitted by an undergraduate.

KIRK LAY KNIGHT, '61

THE ARMSTRONG PRIZE, from the income of a fund of \$2,500, established in part by Collin Armstrong of the class of 1877 in memory of his mother Miriam Collin Armstrong, awarded in the form of books to the value of \$90 to members of the freshman class who excel in composition.

First Prize

FREDRIC DAVID LAKE, JR., '64

Second Prize

DAVID AARON SOSKIS, '64

THE COLLIN ARMSTRONG POETRY PRIZE, from the income of a fund of \$2,500, established in part by Mrs. Elizabeth H. Armstrong; \$90 is awarded to the undergraduate author of the best original poem or group of poems.

MERRILL VAN DE GRAAFF, '62

THE CORBIN PRIZE, from the income of a bequest of \$1000 established by the estate of William Lee Corbin of the Class of 1896; \$70 is awarded for an outstanding original composition in the form of poetry or an informal essay.

DOUGLAS COOK WILSON, '62

THE JOHN FRANKLIN GENUNG PRIZE, of \$50, given each year anonymously in memory of Professor Genung, is awarded to that member of the junior or senior class who excels in prose composition.

SAMUEL RICHARD TODD, JR., '62

THE HARRY RICHMOND HUNTER, JR. PRIZE, from the income of a fund of \$1,400, established by H. R. Hunter and Emma Louise Hunter in memory of their son, Harry Richmond Hunter, Jr. of the class of 1929; \$50 is awarded to that member of the sophomore class who presents the best essay on a topic approved by the English department.

DAVID NORMAN GRIGGS, '63

THE PETER BURNETT HOWE PRIZE for excellence in prose fiction, established by a gift of Robert B. Howe of the class of 1930 in memory of his son Peter Burnett Howe '60. The prize is awarded to an undergraduate for excellence in prose fiction.

LAURENCE FRANCIS SHEEHAN, '61

THE RALPH WALDO RICE PRIZE, from the income of a fund of \$1,800, established by Mrs. Mary Rice Jenkins in memory of her brother, Ralph Waldo Rice, of the class of 1910; \$125 is awarded for the best essay on "The Liberal College and Christian Citizenship" or any other subject named by the Faculty.

PETER BEREK, '61

Fine Arts

THE ATHANASIOS DEMETRIOS SKOURAS PRIZE of \$60 is given annually by an anonymous donor in the memory of Athanasios Demetrios Skouras, '36, who died in 1943 in Athens, Greece, as a result of Nazi reprisal killings. The prize is given to a student who in the opinion of the Fine Arts Department has created an outstanding work of art or architecture or to a student who, in the opinion of the Music Department, was pre-eminent in music composition or rendition of a music selection. Preference to be given in the fine arts.

ROBERT LESLIE HARPER, '61

Greek

THE WILLIAM C. COLLAR PRIZE, from the income of a fund of \$1,300 established by the late William C. Collar of the class of 1859; \$90 is awarded to the member of the freshman class who shall make on a written examination the best version in English of a previously unseen page from some Greek author.

PHILIP BROWN ALLEN, '64

THE HUTCHINS PRIZE, from the income of a fund of \$1,300, established by the late Waldo Hutchins of the class of 1842; \$90 is awarded to an upperclassman for excellence in Greek. The scholarship is determined chiefly by the regular recitations and examinations of the department but special studies and examinations may also be required of the candidates.

ARTHUR GREGORY SLOBODIN, '62

THE HARRY DE FOREST SMITH SCHOLARSHIP is awarded to a member of the freshman class enrolled in one of the regular courses in the Department of Greek. The award is made on the basis of an examination given at the candidate's school in the March preceding his entrance to college. Students who have had either two or three years of Greek at School are eligible for this scholarship. The amount of the stipend is based on the financial need of the winner according to the regular scholarship procedures

of the College. It is renewable after freshman year in accordance with the regular scholarship policy. In cases where there is no demonstrable financial need, the winner will receive an honorary \$100 stipend for the first year.

PHILIP BROWN ALLEN, '64

Journalism

THE SAMUEL BOWLES PRIZE, from the income of a fund of \$3,800 established by the late Samuel Bowles King, '02; to stimulate interest in journalism as a career, a prize of \$250 is awarded to a student of the junior or senior class who has demonstrated proficiency in journalism. The income may be used from time to time for a scholarship or toward a lectureship.

No Award

Latin

THE BERTRAM PRIZES, from the income of a fund of \$2,400, established by the late John Bertram of Salem; two prizes of \$100 and \$60 each are awarded to those students who, together with attaining a high average in the Latin courses of the Senior Year, present the best essays on some approved topic connected with these courses.

First and Second Prizes Combined:

DONALD PETITHORY MOSSMAN, III, '61

THE BILLINGS PRIZES, from the income of a fund of \$1,300, established by Frederick Billings in memory of Parmly Billings of the class of 1884; two prizes of \$55 and \$30 are awarded for general excellence in the Latin courses of the Sophomore Year together with the best essays on special topics connected with the authors read in that year.

First and Second Prizes Combined and Divided between:

JOSEPH COLEMAN CARTER, JR., '63

DAVID LOUIS QUAGLIA, '63

THE CROWELL PRIZES, from a fund of \$2,300 in memory of Edward Payson Crowell of the class of 1853; prizes of \$55 and \$30 are awarded for the highest scholarship in the freshman Latin courses; prizes of \$55 and \$30 are awarded to the students who, together with attaining a high average in the Latin courses of the Junior Year, present the best essays on some approved topic connected with the junior Latin course.

Freshman Award

First Prize

CHRISTOPHER WELLS GAY, '64

Second Prize

DAVID HAUGHEY ANGNEY, '64

Junior Award

First and Second Prizes Combined:

ALDEN ADAMS MOSSHAMMER, '62

Mathematics, Physics, and Astronomy

THE BASSETT PHYSICS PRIZES, from the income of a fund of \$3,900 established by Preston Rogers Bassett of the class of 1913; two prizes up to \$100 and \$50 respectively may be awarded each year to those students who have distinguished themselves by the excellence and maturity of their performance in the class and laboratory work of the first course in Physics.

First Prize

JOSEPH EUGENE STIGLITZ, '64

Second Prize

ROBERT ARTHUR KNOX, '64

THE PORTER PRIZE, from the income of a fund of \$600, established by the late Eleazer Porter of Hadley; a prize of \$45 is awarded for proficiency in first year astronomy.

GEORGE EDWARD PETERSON, '63

THE WILLIAM WARREN STIFLER PRIZE, from the income of a fund of \$1,000, created by the late Professor Stifler; \$70 is awarded to a senior who has majored in physics and who is nominated by the teaching staff of the department for excellence in work in the courses of physics for the junior and senior years, with special weight in the course on electricity and magnetism.

PETER DONALD DECICCO, '61

THE WALKER PRIZES, from the income of a fund of \$6,000, given by the late William J. Walker of Newport, Rhode Island; two prizes of \$125 and \$75 are awarded for proficiency in mathematics of the first year, and two prizes of \$125 and \$75 for proficiency in mathematics of the second year. In each case the award is determined by an examination.

First Year

First Prize

FARZAM ARBAB, '64

Second Prize Divided between:

DAVID ALBERT PENNER, '64

CHARLES ROY PHILLIPS, '64

Second Year

First Prize

RALPH EDWARD ALDRICH, '61

Second Prize

ROBERT WORRALL SHOEMAKER, '61

Music

THE ERIC EDWARD SUNDQUIST PRIZE, from the income of a fund established anonymously in memory of Eric Edward Sundquist of the class of 1936; \$50 is awarded annually to that senior who has demonstrated excellence in musical composition and performance.

RICHARD JOHN KOZERA, '61

Philosophy and Religion

THE MOSELEY PRIZES, from the income of a fund of \$7,500 established by the late Thomas W. H. Moseley of Hyde Park; two prizes of \$340 and \$170 are awarded to members of the senior class for the best essays on a subject approved by the Department of Philosophy and Religion.

First Prize

PETER BEREK, 61

Second Prize

DAVID ALEXANDER BUCHAN, '61

Physical Education

THE SAWYER PRIZES, from the income of a fund of \$1,900, established by the late Edmund H. Sawyer, hon. 1878; \$130 is available for prizes for improvement in the department of Physical Education.

Senior Class

DAVID TAMBLYN TUFTS, '61

Sophomore Class

PETER MACDOWELL BARNETT, '63

Political Science

THE DENSMORE BERRY COLLINS PRIZE IN POLITICAL SCIENCE, of \$50, given annually by Miss Margaret S. Densmore in memory of her nephew Densmore Berry Collins, of the class of 1940. The award will be made to the student submitting the best honors thesis in Political Science.

KOICHIRO FUJIKURA, '61

Public Speaking

THE BANCROFT PRIZES, of \$280 and \$145, from the income of a fund of \$6,300 established by the late Frederic Bancroft of the class of 1882; awarded to the two members of the senior class who produce the best orations. Both composition and delivery are considered in making the awards.

First Prize

GILBERT ROGER SHASHA, '61

Second Prize

TAE WI PARK, '61

THE BOND PRIZES, from the income of a fund of \$2,300 established by the late Ephraim W. Bond of the class of 1841; \$150 and \$50 are awarded for the best productions spoken at the Senior Chapel service. The awards are determined by a committee appointed by the Trustees upon nomination by the Faculty.

First Prize

CHARLES BEECHER BERRYMAN, '61

Second Prize

FREDERICK CARL TEIWES, '61

THE GILBERT PRIZE of \$100 from the income of a fund established by the late William O. Gilbert of the class of 1890 is awarded to a member of the junior class who produces the best oration. Both composition and delivery are considered in making the award.

JEFFREY ARNOLD GOTTlieb, '62

THE HARDY PRIZES, from the income of a fund of \$1,200, established by the late Alpheus Hardy of Boston; prizes of \$55 and \$30 are awarded for excellence in extemporaneous speaking.

First Prize

BERT WALTER REIN, '61

Second Prize

FRED LEWIS WALLACE, '61

THE KELLOGG PRIZES, from part of the income of a fund of \$54,500, established by the late Rufus B. Kellogg of the class of 1858; two prizes of \$70 and \$50 are awarded to members of the sophomore or freshman classes for excellence in declamation.

First Prize

PETER EDWARD HAGGERTY, '63

Second Prize

RICHARD GUS SINGER, '63

THE ROGERS PRIZE, from the income of a fund of \$1,200, given by Noah C. Rogers of the class of 1880; \$85 is awarded to a member of the junior class for excellence in debate.

BRIAN CRISTALDI, '62

Scholarship and Citizenship

THE ADDISON BROWN SCHOLARSHIP, from the income of a fund of \$6,100, established by the late Addison Brown of the class of 1852; \$415 is awarded to that member of the senior class who, being already on the scholarship list, shall have attained the highest standing in the studies of the freshman, sophomore, and junior years.

JOHN AMOS KNEISLY, II, '61

THE SAMUEL WALLEY BROWN SCHOLARSHIP, from the income of a fund of \$6,100, established by the late Samuel Walley Brown of the class of 1866; \$415 is awarded to that member of the sophomore class who at the end of his sophomore year shall in the estimation of the Trustees rank highest in his class in character, class leadership, scholarship, and athletic ability.

JAMES ALFRED GUEST, JR., '62

THE FRANK A. HOSMER SCHOLARSHIP, from the income of a fund of \$15,000 established by Frank A. Hosmer of the class of 1875; \$600 is awarded to that member of the sophomore class who, being already on the scholarship list, shall have attained the highest standing in the studies of the freshman year.

RICHARD TERDIMAN, '63

THE HOUSE MANAGEMENT COMMITTEE TROPHY is awarded each year after the end of the first semester to the sophomore delegation of a fraternity or social organization having the best scholastic record for the semester, judgment of the record to be based equally on comparative scholastic standing and on percentage of improvement as against the preceding semester.

1960-1961 THETA DELTA CHI

THE GORDON B. PERRY MEMORIAL AWARD, from the income of a fund of approximately \$1,300, provides a trophy and cash prize of \$85 to a freshman in good academic standing whose participation and attitude in freshman athletics and other activities are outstanding.

HARRY WILLIAM KNIGHT, JR., '64

THE PORTER ADMISSION PRIZE, from the income of a fund of \$1,200, established by the late Eleazer Porter of Hadley; \$85 is awarded each year to the member of the entering freshman class who is judged to have the best general record on the College Board tests taken for admission to Amherst. The name of the successful candidate, together with that of his school, is published in the catalogue.

PHILIP BROWN ALLEN, '64

Roxbury Latin School, West Roxbury, Massachusetts

THE PSI UPSILON PRIZE, from the income of a fund of approximately \$5,200, established by the Gamma Chapter of Psi Upsilon in 1941 on the

occasion of the Centennial Anniversary of the founding of the Chapter; \$300 is awarded to that member of the graduating class who, in the opinion of a committee consisting of the President of the College, the Dean, and the Chairman of the Department of Physical Education and Intercollegiate Athletics, is considered to be, in the terms of the Ancient Athenian oath,* the "first citizen" of the College.

JOHN SCOTT PARKS, '61

THE JOHN SUMNER RUNNELLS MEMORIAL, from the income of a fund of \$6,100, established in memory of John Sumner Runnells of the class of 1865; \$415 is awarded to that member of the sophomore class who shall in the opinion of the Trustees of the College be preëminent in his zeal for knowledge and industry to attain it.

HENRY ALLEN FREEDMAN, '62

THE OBED FINCH SLINGERLAND MEMORIAL PRIZE, from the income of a fund of \$11,000 established by an anonymous donor; \$750 is awarded by the Trustees of the College to that member of the junior class, who, during his first three years at Amherst, has shown by his own determination and accomplishment the greatest appreciation of and desire for a college education; the award to be based upon demonstrated achievement with full consideration given to the external handicaps, financial and otherwise, under which his record was attained; in case of uncertainty the Trustees are to be guided by the example set by Obed Finch Slingerland.

NORMAN CLARK ROSS, '61

THE SYLVESTER SCHOLARSHIP of \$750 provided by an annual gift from Albert L. Sylvester of the Class of 1924, is awarded to a senior who, being already on the scholarship list, at the end of his junior year has combined most clearly outstanding success in extra-curricular activities, including athletics, with academic distinction in one or more fields.

MARK LAWRENCE STIGLITZ, '61

THE STANLEY V. and CHARLES B. TRAVIS PRIZE, from the income of a fund of \$2,400; established by the late Charles B. Travis of the class of 1864; \$160 is awarded to that member of the graduating class who has made the most improvement as a man and as a scholar during his college course.

JOHN CARROLL FENTRESS, '61

*"I will not disgrace the soldier's arms, nor abandon the comrade who stands at my side; but whether alone or with many, I will fight to defend things sacred and profane. I will hand down my country not lessened, but larger and better than I have received it. I will accept readily and with understanding the verdicts of our judges, and I will obey the established laws and such other laws as the people may establish. If anyone shall attempt to overthrow the laws, I will not permit it, but whether alone or with many, I will fight to defend them; and I will honor the religion of our fathers. The gods attest this oath!"

THE TREADWAY INTERFRATERNITY SCHOLARSHIP TROPHY, a silver cup, given by Hon. Allen Treadway of the class of 1886, in memory of his son, Charles Denton Treadway, awarded to that fraternity or the group of all non-fraternity men which has attained the highest scholastic average during the previous academic year.

1960-1961

ALPHA THETA XI

THE TRUSTEE TROPHY is awarded each semester to the fraternity or social organization showing the greatest percentage of improvement academically during the previous semester.

1960-1961

First Semester—BETA THETA PI

Second Semester—CHI PHI

THE WOODS PRIZE, an annual gift of \$75 in memory of the late Josiah B. Woods of Enfield, is awarded for outstanding excellence in culture and faithfulness to duty as a man and as a scholar—particular attention being given in any prominent case to improvement during the four years' course.

JOHN CARROLL FENTRESS, '61

Other Prizes

THE ROBERT E. BAUSER MEMORIAL AWARD of a twenty-five dollar United States savings bond (or its equivalent), is given at the close of every academic year to that member of the Senior Class who, in the opinion of the senior board of Radio Station WAMF, has been of the greatest service in the operation and development of the station, during his tenure as station member. This award is sustained in perpetuity of Amherst College by the Alpha Chi Chapter of Phi Gamma Delta in memory of its brother, Robert E. Bauser, '54.

PETER LESLIE ROGERS, '61

THE ASHLEY MEMORIAL TROPHY, given by the Class of 1916 in memory of Thomas W. Ashley, '16, who was killed in action at Belleau Wood in 1918, is presented annually to the retiring member of the football team who, in the opinion of a committee consisting of the Coach, the Manager, and the Captain-elect, has best "played the game."

JOHN CHARLES CHESKA, JR., '61

THE HOWARD HILL MOSSMAN TROPHY, awarded annually to the member of the senior class, who, in the opinion of a committee consisting of the President of the College, the Dean, the Chairman of the Department of Physical Education and Intercollegiate Athletics, and the President of the Student Council, has brought, during his four years at Amherst, the

greatest honor in athletics to his Alma Mater—the word “honor” to be interpreted as relating both to achievement and to sportsmanship.

ANDREW MALLORY, '61

THE PLIMPTON INTERFRATERNITY DEBATE TROPHY, given by Francis T. P. Plimpton, '22, awarded annually to the group which places first in the interfraternity debate tournament.

PSI Upsilon, '61

THE LINCOLN LOWELL RUSSELL PRIZE, from the income of a fund of \$1,200 established by the late J. W. Russell, Jr. of the class of 1899 in memory of his son; \$85 is awarded to that member of the graduating class who has done most to foster the singing spirit in Amherst College.

PETER COWGILL WARD, '61

Degrees Conferred October 29, 1960

BACHELOR OF ARTS

Rite

Wyatt Eugene Harper, Jr.

Joseph Raymond Pesce

John Stephen Read

Degrees Conferred April 15, 1961

BACHELOR OF ARTS

Rite

Charles Andrew Flood

James Spurgeon Jackson, Jr.

George Slade Schuster, Jr.

Saud Mohammed Ali Shawwaf

Peter Gregory Sokaris

James Gary Taylor

Melville Campbell Thomason

Edward Stephen Todd

Degrees Conferred June 11, 1961

BACHELOR OF ARTS

Summa cum laude

Bert Walter Rein

Economics

Magna cum laude

Peter Berek

English

Charles Beecher Berryman

English

Peter Donald De Cicco

Physics

Earl Carlyle Dudley, Jr.

History

William Bruce Dunkman

Chemistry

John Carroll Fentress

Psychology

Bruce Neil Goldreyer

Philosophy

Walter Dunlop Haynes

Economics

David Johnson, III

Mathematics

Howard Henry Junker

English

Richard Benson Klein

Economics

John Amos Kneisly, II

Mathematics

Frederick William Luttmann, IV

Mathematics

Stanley Hinman Masters

Mathematics

Landis Olesker

American Studies

John Scott Parks

American Studies

William Venable Rapp

Economics

Kenneth Roy Ratzan

Biology

Gerald Stuart Shedler
Mathematics
 Harold Eliot Varmus
English
 Fred Lewis Wallace
Political Science

Richard Stanley Wirtz
American Studies
 James Thornton Wood
Mathematics
 Ralph Aubrey Young, Jr.
History

Cum laude

Alfred Samuel Alschuler, III
Psychology
 Cushman Dodge Anthony
History
 Edwin Lamont Barber, III
History
 James Jay Bender
Biology
 David Richardson Bornemann
Mathematics
 Paul Roger Bracciotti
Philosophy
 David Carroll Bricker
English
 David Alexander Buchan
History
 Charles Joseph Chotkowski
Physics
 Denis Joseph Clifford
English
 Ronald Frederick Daitz
Classics
 Stuart Sneed Deane
Mathematics
 Gordon Lee Doerfer
Physics
 Guenter Anton Duethorn
Classics
 Theodore Fischer Ells
Economics
 Paul Warner Fairchild, Jr.
American Studies
 Fred J. Fechheimer
Mathematics
 Kenneth Dyer Frederick
Economics
 Koichiro Fujikura
Political Science

James Franklin Goldberg
English
 Jeffrey Harold Gordon
Biology
 Alan Lester Greenbaum
Biology
 Christopher Waldo Grose
English
 Hall Edward Harrison
Biology
 Jon Brian Hassel
French
 Thomas Alexander Hopkins
Chemistry
 Richard Inglis, III
Psychology
 Theodore Charles Jones
Biology
 Thomas Howard Kaufman
Economics
 William Nicholas Knight
English
 Charles Christopher Knipp
English
 Stephen Howard Knowles
Astronomy
 Monroe Alan Kohn
Economics
 Thomas Edward Kohn
Biology
 Robert Alexander Kugler
Economics
 Robert Darryle Kuklis
American Studies
 Arthur Haym Landy
Biology
 Young Ho Lee
Political Science

John Wilson Lyon	Mark Lawrence Stiglitz
<i>History</i>	<i>History</i>
Joel Tabor Mague	Reaves Ewalt Strobel, Jr.
<i>Chemistry</i>	<i>English</i>
Andrew Mallory	Kurt Jay Stromberg
<i>Biology</i>	<i>Biology</i>
Donald Petithory Mossman, III	Philip King Thatcher
<i>Latin</i>	<i>History</i>
Tae Wi Park	Arthur Rumford Thompson, III
<i>Economics</i>	<i>Biology</i>
Edward Spaulding Pearsall	Robert Sharpe Thompson
<i>Economics</i>	<i>Biology</i>
William Robert Perkins, III	Charles Bruce Updike
<i>Economics</i>	<i>History</i>
William Porter Pratt, Jr.	Olin Blair van Dyck
<i>Physics</i>	<i>Astronomy-Physics</i>
Philip Tyler Rand	Michael George Vesselago
<i>French</i>	<i>Biology</i>
William Longstreth Raub, III	Robert Gills Weiner
<i>Economics</i>	<i>Biology</i>
Christopher Symonds Rhines	George Crosier Whitney, III
<i>Political Science</i>	<i>Chemistry</i>
Joseph White Richardson	Frederick Edwin Whyte
<i>Philosophy</i>	<i>American Studies</i>
Robert Simon Rosengard	Jeremiah Wood, III
<i>English</i>	<i>History</i>
Peter Damon Schwartz	Thomas Edward Wood
<i>American Studies</i>	<i>English</i>
Laurence Francis Sheehan	John Alexander Woodcock
<i>English</i>	<i>English</i>
William Wellington Ent Slights	Eiro Yamashita
<i>English</i>	<i>Economics</i>
Warren Andrew Spence	Richard Allen Zajchowski
<i>Economics</i>	<i>English</i>

Rite

Ralph Edward Aldrich	James Richard Bookwalter
Hugh Blackledge Andrews	Jonathan Porter Brower
Thomas Emerson Bailey	Robert Eugene Browning
Gary Bair	John Howard Bursk
George Griffith Baker	Gustaf Brainard Carlson
Walter Whitney Barnett	John Charles Cheska, Jr.
Robert Scott Barrett	Timothy James Colvin
Sidney Rodgers Bixler	Arthur Hew Dalrymple Crooks
C. Richard Blaich	Timothy Allan Dalsimer
Robert Murison Blanck	Peter Brundage Deisroth

Harry Denny, III
 Robert Francis Denny
 Joseph Patrick Derby, Jr.
 John Mark Deutch
 Richard Charles Dimond
 Richard Alan Drew
 Dean Lee Engelhardt
 Frederick Russell Estey
 James Preston Fletcher
 Eric Roger Fox
 Ralph Paul Francesconi
 Wesley Erwin Franklin
 Dennis Gary Garner
 George Kendall Garrett
 Lester LeRoy Garrison
 Jonathan Leland Gates
 William Washburn Goodhue
 James Wilson Greene, II
 Lowell Hampton Greene, Jr.
 Paul Grossman
 David Bailey Hamilton
 Robert Leslie Harper
 Richard Tompkins Harriss, III
 Wyatt Rushton Haskell
 Theron MacDowell Hatch, III
 Douglas Alfred Havighurst
 J. Noel Heermance
 Walter Dwight Herrick, III
 Douglas Higgins
 Henry Albert Hill, Jr.
 James William Hill, III
 Alfred Boyd Hinds, Jr.
 Donald Nichols Hobbs
 Timothy Warner Horton
 Richard Moulton Howland
 Stuart Hartley Hurlbert
 Charles William Husbands
 Alexander Leslie Janes
 James Stanley Johnson, Jr.
 Steven Brian Johnson
 Harry Alan Keener
 William Bradford Keith
 Kirk Lay Knight
 Richard John Kozera
 Theodore Cheff Krismann
 Peter Pangman Kuhn

Robert John Leeder
 Mark Roger Levine
 Roscoe Conklin Lewis, III
 John David Liebson
 John Johnson Locke, Jr.
 James Edward Long
 Richard John Martula
 Stephen Menschel
 John Otis Merritt
 Stephen Morrow
 Thomas Adolfo Munoz
 Uberto Tommaso Muzzarelli
 Howard Barton Myers, Jr.
 Michael Ragnar Naess
 Mansfield Castleton Neal, Jr.
 John Henry Neale, Jr.
 Harry Talbot Neimeyer
 Leonard Shelton Newcomb
 James Walton Noyes
 Paul Lippincott Obre
 James Rutger Otterstrom
 Robert Aneurin Owen
 Roger Bower Pennington
 Frederick Herman Perabo
 Stephen Perl binder
 Hervé Marie Joseph Peyrelongue
 Philip M. Pochoda
 Henry Saylor Poler
 David Edward Powell
 Robert Philip Powell
 Walter Joseph Raleigh, Jr.
 John Arthur Ronveaux
 Charles Jon Rosengren
 Norman Clark Ross
 Robert Anders Sargent
 John Edward Savage, Jr.
 Lee Francis Scanlon
 Joseph Scattergood, III
 Gilbert Roger Shasha
 Robert Allen Sheppard
 Robert Worrall Shoemaker
 Robert Siegel
 Norman Timothy Slade
 Stuart Grant Snyder
 Richard Lee Spire, II
 Arthur Ambrose Sullivan, Jr.

Paul Stanley Szczepanek	Peter Cowgill Ward
Richard Walter Szlosek	John Wallace Wendler
Frederick Carl Teiwes	John Francis Whitehead, Jr.
Jens Nicolai Friis Touborg	John Sargent Whitney, Jr.
David Tamblyn Tufts	Bruce Everett Willard
John Gosney Turner	Robert Wade Williams
Alexander Stevenson Twombly, III	John Richard Willis
Richard Leo Ullman	Richard Chase Wilson
Robert Lyon Venman	Evan Charles Young
Bruce Howlett Walker	Richard Zeitler

Master of Arts

José Martinez Faustino

Honorary Degrees Conferred September 18, 1960

Richard Eugene Wilson
Benjamin Haile DeMott

June 11, 1961

MASTER OF ARTS

Robert Osborne Boyd, 1926
James Appleton Thayer, 1921

DOCTOR OF HUMANE LETTERS

James Siegismund Schramm, 1926
Stephen Emerson Whicher, 1936

DOCTOR OF DIVINITY

Frank Cary, 1911

DOCTOR OF LAWS

Robert Frederick Loeb
John Edward Sawyer
Paul Langdon Ward, 1933

Medal for Eminent Service Awarded June 11, 1961

John Butler Prizer, 1929

IV
Enrollment

Enrollment

FALL SEMESTER

1961-1962

GRADUATE STUDENTS

Engelhardt, Dean Lee
Raymakers, Robert
Rice, Elizabeth Rose
Shibuya, Akihiko
Tanaka, Tsutomu
Van Gelder, Daniel

Pasadena, Calif.
Green Bay, Wis.
West Concord, Mass.
Kyoto, Japan
Kachushimmachi, Japan
Catonsville, Md.

SENIORS—*Class of 1962*

Abodeely, Paul Albert
Adams, Donald Bradshaw
Alcaly, Roger Ellis
Allard, Robert Gordon
Allen, James DeWolfe
Anthony, Robert Williams
Aplington, James Page
Arbuthnot, David Holt
Ardiff, Ralph Ernest, Jr.
Asomura, Kuniaki
Barnes, Alexander Edward
Barnes, Timothy Earl
Barney, Howard Hunter
Beck, Laurence Holland
Bellows, Peter Heacock
Berger, Howard Stephen
Berman, Morton Henry
Bevis, George Randolph
Beyea, Jan Edgar
Biddle, William Eugene, III
Blood, David King
Blue, Anthony Dias
Boenau, Douglas Charles
Boeschenstein, Warren Clifford
Bogosian, Robert Eznick
Braemer, Richard Jeffrey
Braun, David Kent
Brecher, Joseph Jay
Brittan, Gordon Goodhue, Jr.
Broadbent, Peter Allan

Worcester, Mass.
Riverside, Conn.
New York, N. Y.
Cincinnati, Ohio
Shaker Heights, Ohio
Providence, R. I.
Columbus, Ohio
Geneva, Switzerland
Danvers, Mass.
Akita City, Japan
Boston, Mass.
Hastings-on-Hudson, N. Y.
Mobile, Ala.
Wilmington, Del.
Mamaroneck, N. Y.
Jamaica, N. Y.
Clark, N. J.
Excelsior, Minn.
Brooklyn, N. Y.
Auburndale, Mass.
Leonia, N. J.
Larchmont, N. Y.
Stratford, Conn.
St. Louis, Mo.
Cliffside Park, N. J.
Philadelphia, Pa.
Bronxville, N. Y.
Brooklyn, N. Y.
Winnetka, Ill.
Pembroke, Mass.

Brockington, Philipp Ludwig	<i>Chesterton, Ind.</i>
Broughton, Richard Glover	<i>Amherst, Mass.</i>
Brown, Peter Ogden	<i>Ithaca, N. Y.</i>
Bryant, Courtney Stager	<i>Greene, N. Y.</i>
Buchwald, Irwin Allan	<i>Brooklyn, N. Y.</i>
Buck, Jeffery Edward	<i>Amherst, Mass.</i>
Carmany, George Walter, III	<i>Westhampton Beach, L. I., N. Y.</i>
Carpenter, Christopher Jenns	<i>San Francisco, Calif.</i>
Carpenter, Luther Pirie	<i>Grand Rapids, Mich.</i>
Catron, James Granville	<i>Springfield, Mass.</i>
Chace, Hugh Ross, Jr.	<i>Ridgewood, N. J.</i>
Chadys, Joel Louis	<i>New Haven, Conn.</i>
Chambers, Reid Peyton	<i>Washington, D. C.</i>
Christaldi, Brian	<i>Upper Montclair, N. J.</i>
Clark, Barkley	<i>Denver, Colo.</i>
Clark, Charles Kilburn	<i>Wellesley Hills, Mass.</i>
Clinton, James Sanford	<i>Omaha, Neb.</i>
Cohler, Charles Benjamin	<i>Highland Park, Ill.</i>
Cook, Robert Stansfield, Jr.	<i>Fayetteville, N. Y.</i>
Cordonnier, Justin Caulfield	<i>St. Louis, Mo.</i>
Cotignola, Anthony Ralph	<i>Merrick, N. Y.</i>
Cox, Roger Frazier	<i>Wynnewood, Pa.</i>
Cronnell, Bruce Albert	<i>Dalton, Mass.</i>
Cruikshank, David Lincoln	<i>East Longmeadow, Mass.</i>
Deaett, Alan Kenneth	<i>East Providence, R. I.</i>
Dickey, John Alan	<i>Shaker Heights, Ohio</i>
Diem, Michael Henry	<i>Litchfield, Conn.</i>
Ditzian, Michael David	<i>Rockville Centre, N. Y.</i>
Drake, Rossiter Jerome, Jr.	<i>Westport, Conn.</i>
Dunphy, James Francis	<i>Milton, Mass.</i>
Duryea, Peter Lane	<i>Hollywood, Calif.</i>
Duryee, John Sauge	<i>Summit, N. J.</i>
Duvall, Robert Lee, Jr.	<i>Huntington, N. Y.</i>
Easterling, Jack LeRoy	<i>Cincinnati, Ohio</i>
Elia, Philip Russell	<i>Boston, Mass.</i>
Elliott, Bruce Moore	<i>Waterford, Conn.</i>
Ellsworth, Michael Hamilton	<i>Brooklyn, N. Y.</i>
Elwell, David Leslie	<i>Newtown, Pa.</i>
Epstein, Jeffrey Michael	<i>Roslyn Heights, N. Y.</i>
Evans, Bruce Haselton	<i>Rome, N. Y.</i>
Evers, Timothy Banks	<i>Glenbrook, Conn.</i>
Farnum, Bruce Edward	<i>Athol, Mass.</i>
Fieger, Henry George, Jr.	<i>Bronxville, N. Y.</i>
Fields, Gilbert Alan	<i>West Newton, Mass.</i>
Fink, Gerald Ralph	<i>Freeport, N. Y.</i>
Freedman, Henry Allen	<i>Baltimore, Md.</i>

Freeman, Joseph Wood, Jr.
 Freeman, William LeClair
 Fretz, Burton David
 Friedrich, David Edward
 Fulton, Robert Campbell, III
 Gardiner, Richard
 Gesing, Rand William
 Glass, Joseph Victor
 Glen, Jeffrey Elias
 Goetzl, Edward Joseph
 Gordon, Charles Chasins
 Gottlieb, Jeffrey Arnold
 Gould, James Bernhard
 Guest, James Alfred, Jr.
 Gutcheon, Jeffrey David
 Hahn, Edwin Charles, III
 Hanford, Thomas Terry
 Harbison, Robert Dale
 Hauschka, Stephen Denison
 Hayes, John Thompson
 Hazlett, John Arbenz
 Heebner, George Kenneth
 Heitler, Dean J.
 Heitler, Don A.
 Heller, Arthur Paul
 Hersh, Stephen Peter
 Hoeldtke, Robert Daniel
 Hudspeth, William Junia, Jr.
 Hughes, Edward Francis Xavier
 Jardine, William Sherman
 Johnson, Edward Theodore, II
 Jones, Henry Warren, Jr.
 Jones, Peter Radcliffe
 Kabatznick, Joel Max
 Kaplan, Paul Elias
 Keith, Robert Gordon
 Kiely, John Roche
 Kirschenbaum, Ira Norman
 Kolman, Theodore Robert
 Krick, James Allan
 Kriegel, Jay Lawrence
 Krone, Howard Barry
 Kwass, Walter
 Landfield, Richard
 Landon, Robert Donald Wike, II
 Lavery, Hugh Joseph

Mountainside, N. J.
Swansea, Mass.
North Newton, Kans.
Bronxville, N. Y.
New York, N. Y.
Forest Hills, N. Y.
Andover, Mass.
Brooklyn, N. Y.
Milwaukee, Wis.
Amherst, Mass.
Baltimore, Md.
Mount Vernon, N. Y.
Great Neck, N. Y.
Amherst, Mass.
New York, N. Y.
Scarsdale, N. Y.
Rochester, N. Y.
Carlisle, Pa.
Buffalo, N. Y.
Worcester, Mass.
Wheeling, W. Va.
Lafayette Hill, Pa.
Denver, Colo.
Denver, Colo.
Brooklyn, N. Y.
New York, N. Y.
Buffalo, N. Y.
Houston, Texas
Roslindeale, Mass.
Albany, N. Y.
Cleveland, Ohio
Guilford, Conn.
Woodstock, N. Y.
Westbrook, Conn.
Mount Vernon, N. Y.
Merion, Pa.
Woodside, Calif.
Brooklyn, N. Y.
Normandy, Mo.
Washington, D. C.
Brooklyn, N. Y.
Jamaica, N. Y.
Brooklyn, N. Y.
Glencoe, Ill.
Vestal, N. Y.
Bridgeport, Conn.

Lawrence, David McKinnon
 Leach, Rice Cowan
 Lehman, Jay Stauffer
 Lehr, James Louis
 Leland, William Lewis
 Lelewer, David Kann
 Lewis, John Manwell
 Lilienthal, Philip Howard
 Lindsley, Herbert Benzinger
 Lowy, Martin Eric
 Luzinda, Jamada
 Lyons, Dudley Emerson
 McDermott, John William, Jr.
 McGeorge, Douglas Reynolds
 McGowan, Thorburn Jackson
 Mahar, Robert Lee
 Marsden, Charles Joseph
 Marshall, George Dwire
 Mason, Benjamin Allen
 Meyrowitz, Ralph Eugene
 Miani, Phillip Nicholas
 Mignone, Robert Joseph
 Miike, Lawrence Hiroshi
 Miller, John Peter
 Mittenthal, Jay Edward
 Montgomery, Roger Edmund
 Moorhouse, John Pancoast, Jr.
 Morgan, Craig Humphrey
 Mosshammer, Alden Adams
 Mullane, Patrick Nicholas
 Neal, John Bentley
 Nichols, David Ackart
 Nichols, George Nicholas
 Niskanen, Anthony Stuart
 Nixon, Robert Leon
 Nugent, Richard Recher
 Olanoff, Martin
 O'Mara Kevin James
 Oppenheim, Mark Joel
 Pagnini, David Tulio
 Parsons, Sidney Bailey
 Pasmantier, Mark Weisler
 Pauls, Richard Dayton
 Paulson, Allan Roy
 Paxson, Dean Allen
 Perera, David Rhoads

Portland, Ore.
Louisville, Ky.
Ardmore, Pa.
Kirksville, Mo.
Scarsdale, N. Y.
Glencoe, Ill.
Pittsburgh, Pa.
New York, N. Y.
Wichita, Kan.
New York, N. Y.
Kakiri, Uganda
New York, N. Y.
Wolfeboro, N. H.
Summit, N. J.
New London, Conn.
Northville, N. Y.
Pelham, N. Y.
Chevy Chase, Md.
Waterbury, Vt.
Syosset, N. Y.
Evergreen Park, Ill.
North Haven, Conn.
Honolulu, Hawaii
New York, N. Y.
Louisville, Ky.
Minneapolis, Minn.
Ambler, Pa.
Gaithersburg, Md.
White Plains, N. Y.
New York, N. Y.
White River Junction, Vt.
Wilmington, Del.
Stamford, Conn.
Philadelphia, Pa.
Glen Ridge, N. J.
Reading, Pa.
Brooklyn, N. Y.
Wethersfield, Conn.
New York, N. Y.
Milford, Mass.
Amherst, Mass.
Cedarhurst, N. Y.
Sheboygan, Wis.
Brookline, Mass.
Cedar Rapids, Iowa
New York, N. Y.

Perlman, Lee Alfred
 Perlmutter, Jeremy Frederick
 Peterson, Richard Clark
 Pflaum, Stephen Rothschild
 Pohl, Marc Alfred
 Prigge, William Nixon
 Randall, Michael Larry
 Reiskind, Jonathan
 Rice, Jonathan Philip
 Richmond, Stewart Samuel
 Rieckhoff, James William
 Robey, Bryant
 Roll, David Lee
 Rosenthal, Peter Norman
 Rothstein, Jerold Michael
 Rousseau, George Sebastian
 Sadin, Edward Barry
 Sadler, Alfred Mitchell, Jr.
 Sadler, Blair Leamer
 Sayers, Lewis Howard
 Sayles, Frederick Livermore
 Schuker, Theodore Beryl
 Schultz, David Joel
 Schwartz, Andre A.
 Scolnick, Tony
 Scott, Jonathan Fletcher
 Shepley, Steven Charles
 Sheridan, Michael Francis
 Sherwood, Paul Jay
 Shrager, James Jay
 Siegler, Richard
 Sill, Peter Lewis
 Simpson, John Evan
 Skillman, Stephen Lee
 Slobodin, Arthur Gregory
 Smith, David Nevin, Jr.
 Smith, Harold Jeffrey
 Spencer, George Henry, Jr.
 Stearns, Warren Charles
 Stender, Charles Danner
 Stewart, Foster Ashe
 Stewart, Glenn Alexander
 Stoevers, William Alfred
 Tappert, George Reinhold
 Tapply, William George
 Tatham, Campbell

Larchmont, N. Y.
Poughkeepsie, N. Y.
Reading, Mass.
Wayzata, Minn.
University Heights, Ohio
Northport, N. Y.
Merrick, N. Y.
Staten Island, N. Y.
South Hadley, Mass.
Concord, N. H.
Evanston, Ill.
Cleveland Heights, Ohio
Grosse Pointe, Mich.
White Plains, N. Y.
Mount Vernon, N. Y.
Brooklyn, N. Y.
Lawrence, L. I., N. Y.
Allentown, Pa.
Allentown, Pa.
Walpole, Mass.
Freeport, Maine
Forest Hills, N. Y.
Washington, D. C.
Shaker Heights, Ohio
Bayonne, N. J.
Kansas City, Mo.
Port Washington, N. Y.
West Suffield, Conn.
Great Neck, N. Y.
Plainfield, N. J.
Yonkers, N. Y.
Margate, N. J.
Sacramento, Calif.
Maplewood, N. J.
Lansdale, Pa.
Rydal, Pa.
Missoula, Mont.
Traskwood, Ark.
Evanston, Ill.
Webster Groves, Mo.
Pittsburgh, Pa.
Ellensburg, Wash.
Carbondale, Ill.
Philadelphia, Pa.
Lexington, Mass.
Ossining, N. Y.

Teachout, Peter Read
 Todd, Samuel Richard, Jr.
 Vanags, Intis
 Van De Graaff, Merrill
 Van Nort, Steven Danforth
 Van Tassel, Eric Robert
 Walter, Joseph Jackson
 Ward, John Arthur, Jr.
 Ward, Stephen Edmund
 Weber, Wilmer Michael
 Webster, William Harvey, III
 Weiss, Lawrence
 West, Joseph Thomas, Jr.
 Wheeler, Porter King
 Whitehead, Lewis Richard, Jr.
 Wiener, James Ralph
 Willing, Andrew Russell
 Wilson, Douglas Cook
 Witwer, John Price
 Wolf, Thomas Anthony
 Wolff, David Stephen
 Woodhouse, Thomas Edwin
 Woodworth, Fred Lowe
 Yanofsky, Saul Myer

Montpelier, Vt.
 Darien, Conn.
 Pittsburgh, Pa.
 Ogden, Utah
 Chagrin Falls, Ohio
 New York, N. Y.
 Swarthmore, Pa.
 Riverside, Ill.
 Glen Ridge, N. J.
 Sheboygan, Wis.
 West Hartford, Conn.
 Rockville Centre, N. Y.
 Hinsdale, Ill.
 Anniston, Ala.
 Seymour, Conn.
 New Rochelle, N. Y.
 Mount Vernon, N. Y.
 Bloomington, Ind.
 Radnor, Pa.
 Albuquerque, N. M.
 Elkins Park, Pa.
 Cedar Rapids, Iowa
 Birmingham, Mich.
 Brookline, Mass.

JUNIORS—*Class of 1963*

Ablon, Steven Luria
 Adams, Douglas Neale
 Adler, Stephen Charles
 Afton, John Laun
 Allen, Leon Kenneth
 Amend, William John Conrad, Jr.
 Anderson, Carl Edward, Jr.
 Andrews, James Einar
 Aplington, Robert Kumpf
 Arif, Asad
 Arkin, Stephen Elias
 Arling, Gary Lester
 Aurand, Benjamin Kyte
 Austin, Stephen Mark
 Barnett, Peter MacDowell
 Bartolomei, Roy L.
 Bateman, George Rotan
 Batman, William Everett
 Becker, Lawrence Wilfred
 Bergmann, Johannes Dietrich

New York, N. Y.
 Jacksonville, Fla.
 Gouverneur, N. Y.
 Palo Alto, California
 Paterson, N. J.
 Wilmington, Del.
 Canton, Ohio
 St. Paul, Minn.
 Columbus, Ohio
 Mansehra, W. Pakistan
 Brooklyn, N. Y.
 Joliet, Ill.
 Des Moines, Iowa
 Long Beach, N. Y.
 Williamstown, Mass.
 Massapequa, N. Y.
 Houston, Texas
 Rye, N. Y.
 West Berne, N. Y.
 New Haven, Conn.

Bergner, Alfred Paul
 Bernstein, Alan Saul
 Best, Frank Valentine, Jr.
 Bhend, David Paul
 Bird, James Cooper
 Blanchard, Wyland Leadbetter
 Blom, John Joseph
 Bosworth, Robinson, III
 Bowden, Alan Bruce
 Boyer, John Frederick
 Bragg, Franklin Everett, II
 Brainard, Richard Holston
 Brainerd, Alexander Lamb
 Brookes, Gerry Harding
 Brumm, Gregg Edward
 Bryant, Stephen Palmer
 Buckley, Neill Kerry
 Burns, Walter Xavier
 Caldwell, John Dean
 Carpenter, Gordon Ambler
 Carter, Joseph Coleman, Jr.
 Chizawa, Haruhiko
 Clapham, Wentworth Beggs, Jr.
 Clark, Peter Frank
 Clauson, James Wilson, Jr.
 Cohen, Jerome
 Colton, Donald Stevens
 Conger, Seymour Beach, III
 Crampton, John Philip
 Crosby, Richard Wheeler
 Cushman, Louis Blauvelt
 Daniel, Alan
 Danzis, Alan Lee
 Davidson, Richard Bartlett
 Davis, William Alexander, Jr.
 Derr, John Sebring
 Dickerson, Frank Secor, III
 Diehl, Thomas Richard
 Dobson, Peter Raymond
 Dorner, Douglas Bloom
 Dramin, Edward Irwin
 Drexler, Robert Daniel
 Drumm, Bernhardt Charles, Jr.
 Dubinsky, Henry William
 Dybikowski, James Chester
 Eiteljorg, Harrison, II

New York, N. Y.
Chevy Chase, Md.
Weston, Mass.
Nevada, Iowa
Baltimore, Md.
Rochester, N. Y.
Malverne, N. Y.
Milwaukee, Wis.
Pittsburgh, Pa.
Evanston, Ill.
Bangor, Maine
Schenectady, N. Y.
Menlo Park, Calif.
Augusta, Maine
St. Louis, Mo.
Cheshire, Conn.
Wallingford, Conn.
Cos Cob, Conn.
Santa Barbara, Calif.
Woonsocket, R. I.
Elmhurst, Ill.
Tokyo, Japan
Chappaqua, N. Y.
Rochester, N. Y.
Montclair, N. J.
San Francisco, Calif.
Hanover, N. H.
Pleasantville, N. Y.
Fort Washington, Pa.
Helena, Ala.
Montclair, N. J.
New York, N. Y.
Elizabeth, N. J.
New York, N. Y.
New York, N. Y.
Waban, Mass.
Concord, Mass.
Manheim, Pa.
Great Neck, N. Y.
Des Moines, Iowa
Springfield, Mass.
Cedar Rapids, Iowa
St. Louis, Mo.
Richmond Heights, Mo.
South Hadley Falls, Mass.
Coral Gables, Fla.

Erickson, Carl David	<i>Pasadena, Calif.</i>
Faerber, Kent William	<i>St. Louis, Mo.</i>
Flint, Paul Harry, Jr.	<i>Medford, Mass.</i>
Fobes, Walter Stewart	<i>White Bear Lake, Minn.</i>
Forgie, George Barnard	<i>Bala-Cynwyd, Pa.</i>
Franklin, John Weed, Jr.	<i>Darien, Conn.</i>
Freeland, Richard Middleton	<i>Mountain Lakes, N. J.</i>
Fried, Richard Mayer	<i>Milwaukee, Wis.</i>
Garton, David, Jr.	<i>Sheboygan, Wis.</i>
Gasarch, Mark	<i>Harrison, N. Y.</i>
Gerdine, Peter Coddington	<i>Dallas, Texas</i>
German, Richard Hubbard	<i>Middletown, Conn.</i>
Gibbs, Charles Kenneth, Jr.	<i>Mount Holly, N. J.</i>
Gibbs, Leon Buster	<i>Middletown, Conn.</i>
Gliedman, Anthony Bruce	<i>Brooklyn, N. Y.</i>
Goldberg, Robert Michael	<i>Washington, D. C.</i>
Gottlieb, Kenneth Ira	<i>Brooklyn, N. Y.</i>
Grant, Stephen Hall	<i>Wellesley, Mass.</i>
Green, James Howard	<i>Wilmette, Ill.</i>
Greene, Andrew Frank	<i>Chestnut Hill, Mass.</i>
Greene, Edward Frank	<i>Wellesley, Mass.</i>
Gregory, Brooke	<i>Wayland, Mass.</i>
Griffiths, Edwin Stephen	<i>Salem, Ohio</i>
Griggs, David Norman	<i>Claremont, Calif.</i>
Grose, Peter Lewis	<i>Great Neck, N. Y.</i>
Haggerty, Peter Edward	<i>Whitinsville, Mass.</i>
Hallam, Mark Frederick, Jr.	<i>Nutley, N. J.</i>
Hanna, Ralph, III	<i>Austin, Texas</i>
Hawley, John Stratton	<i>Louisville, Ky.</i>
Hay, John Melvin	<i>Kirkwood, Mo.</i>
Hemenway, Peter	<i>Flossmoor, Ill.</i>
Henningsen, Philip Roseman	<i>Milwaukee, Wis.</i>
Henry, DeWitt Pawling	<i>St. Davids, Pa.</i>
Herzog, Alfred	<i>Doylestown, Pa.</i>
Holmes, David Alan	<i>Wilmington, Del.</i>
Holmes, Robert Henry	<i>Denver, Colo.</i>
Holt, Wythe Whiting, Jr.	<i>Hampton, Va.</i>
Houghtlin, Charles Benjamin	<i>Evanston, Ill.</i>
Howes, Robert Ingersoll, Jr.	<i>Santa Fe, N. M.</i>
Huey, Burkett Wakefield, Jr.	<i>West Hartford, Conn.</i>
Ikeda, Nobuyoshi	<i>Takagun, Japan</i>
Israel, Daniel Harris	<i>Moylan, Pa.</i>
Jacobson, Lewis Arthur	<i>Brooklyn, N. Y.</i>
Johnson, Malcolm Pratt	<i>Hamden, Conn.</i>
Jones, Clergue	<i>New York, N. Y.</i>
Judis, John Barney	<i>Brookline, Mass.</i>

Keith, Robert Emerson, Jr.
 Kerns, Peter Jared
 Kersten, Thomas Erwin
 King, Nan
 Kissam, Philip Charles
 Klevorick, Alvin Keith
 Kraus, Charles Jungenfeld
 Lahm, David Field
 Langford, Stephen Arthur
 Lanning, Jerome Knox
 Larrabee, William Henry, IV
 Laux, Michael Andrew
 Leader, Andrew Michael
 Lee, Richard Hoover
 Lee, William Martens
 Lefferts, Peter Albert
 Lewis, Kenneth Arthur
 Lewis, Stephen Evarts
 Lion, Richard Morgan
 Lipschutz, Daniel Ephraim
 Lombardo, Stephen Joseph
 Lord, John Garvin, Jr.
 Louis, John Carpenter
 McCashin, Frederick Bedford
 McLeod, Dugald Carlton, Jr.
 Mackenzie, Alan Eno
 Manwell, Thomas Henry
 Maples, Frederic Arthur, Jr.
 Marritt, Emanuel
 Massey, Robert Keiser, Jr.
 Mayer, Jeffrey Lorence
 Meneely, Henry Tucker, Jr.
 Mervis, Charles Louis
 Messitte, Peter Jo
 Meyerson, Mark Eric
 Michel, Arthur Greene
 Miller, John Holmes
 Miller, Ralph Lee
 Myers, Christopher Allen
 Nash, John Thomas
 Neill, Jeffrey Piersol
 Newmann, John Michael
 Nickerson, Jeffrey Roger
 Noonan, Frederick William, Jr.
 Northrop, Charles Porter
 Northup, John David, Jr.

Ardmore, Pa.
North Plainfield, N. J.
Anaheim, Calif.
Washington, D. C.
Greenlawn, N. Y.
Rego Park, N. Y.
Kirkwood, Mo.
New York, N. Y.
Washington, D. C.
Birmingham, Ala.
Watertown, N. Y.
New York, N. Y.
Brooklyn, N. Y.
White Plains, N. Y.
Yorktown Heights, N. Y.
Dundalk, Md.
Ardmore, Pa.
Minneapolis, Minn.
Kentfield, Calif.
Detroit, Mich.
Pawtucket, R. I.
Swarthmore, Pa.
Harlan, Iowa
Pluckemin, N. J.
Snyder, N. Y.
Redding Ridge, Conn.
Hudson, Ohio
Nogales, Ariz.
Brooklyn, N. Y.
Worcester, Mass.
Teaneck, N. J.
Annapolis, Md.
Oak Park, Ill.
Bethesda, Md.
Roslyn, N. Y.
Chicago, Ill.
Portola Valley, Calif.
Glencoe, Ill.
Needham, Mass.
Wilmingon, Del.
Belleville, Ill.
Highland Park, Ill.
Woodbridge, Conn.
Vergennes, Vt.
Rochester, N. Y.
Toledo, Ohio

Oliver, Herbert Allan
 Osborn, Lawrence William
 Packel, Edward Wesler
 Paine, Caleb Lawrence
 Parker, Stephen Leonard
 Parsons, John Timothy, III
 Peck, Edwin Cady, Jr.
 Perkins, William Eliab
 Perry, David Lewis
 Perry, Edward Franklin, Jr.
 Peterson, George Edward
 Phelps, William Sabin
 Pingel, John Spencer, Jr.
 Pliske, Thomas Edward
 Pochoda, Daniel Joseph
 Poole, Frank Harper
 Powell, Benjamin Neff
 Powers, Robert Thayer
 Prentiss, Peter Brett
 Price, Hugh Bernard
 Quaglia, David Louis
 Quigley, John Leslie, Jr.
 Quimby, Donald Gordon
 Reis, Randall Sicard
 Reynolds, Craig James
 Riall, David Charles
 Rodefer, Stephen James
 Rodgers, Frederic Barker
 Rohde, Jon Eliot
 Rohrbaugh, Lewis Bunker
 Rosenblum, Gerald Stephen
 Rosenbush, Robert Avrum
 Ross, Robert Reed Newberry
 Ruhl, Patrick Gregg
 Sabetta, John Carl
 Salkever, Stephen G.
 Sargent, Gary Nyflot
 Saxbe, William Bart, Jr.
 Serber, John David
 Shearwood, James Raymond
 Sheatsley, William Daniel
 Short, Alexander Campbell
 Shull, Peter
 Siegel, Alexander Winston
 Silberg, Jay Eliot
 Silver, David Jay
 Singer, Richard Gus

Denver, Colo.
Shaker Heights, Ohio
Merion Station, Pa.
Schenectady, N. Y.
New York, N. Y.
Bethel Park, Pa.
Eden, N. Y.
Bronxville, N. Y.
Dedham, Mass.
Natick, Mass.
Ithaca, N. Y.
Westfield, N. J.
Grosse Pointe Woods, Mich.
Ann Arbor, Mich.
Riverdale, N. Y.
Union, N. J.
Sewickley, Pa.
Boston, Mass.
Hudson, Ohio
Washington, D. C.
Braintree, Mass.
Rochester, N. Y.
Roslyn Heights, N. Y.
Old Greenwich, Conn.
Port Washington, L. I., N. Y.
Danbury, Conn.
Bellaire, Ohio
Slingerlands, N. Y.
Barrington, R. I.
Rockport, Me.
New Hyde Park, N. Y.
Brooklyn, N. Y.
Fair Haven, N. J.
Davenport, Iowa
Brooklyn, N. Y.
New Paltz, N. Y.
New York, N. Y.
Mechanicsburg, Ohio
Philadelphia, Pa.
Norwalk, Conn.
Columbus, Ohio
Alexandria, Va.
Seymour, Conn.
Summit, N. J.
Weehawken, N. J.
Bristol, Conn.
Washington, D. C.

Solomon, Michael Bruce
 Sommers, Charles William, Jr.
 Stine, Patrick Hervey
 Stine, Peter John
 Strong, William Chester
 Swartz, George Allen
 Switky, Frederick David
 Synnott, Burton John
 Tague, Phillip Arthur
 Tarpy, Roger Maynard, Jr.
 Tashjian, James Edward
 Tavano, Richard John
 Taylor, Michael Scallon
 Thompson, Bruce Roger
 Thornburgh, James Thomas
 Thorp, Almus Morse, Jr.
 Truman, Edwin Malcolm
 vonRosenvinge, Christian Randolph
 vonRosenvinge, Tycho Tor
 Wales, Stephen Quincy
 Wanner, Harry Eric
 Warnock, John Phelps
 Warren, Alexander McDowell
 Wasby, Roger Allan
 Weil, John David
 Weisberger, Edward Joseph
 Wells, Stuart Wilder, III
 West, Burton Carey
 Westerbeck, Colin Leslie, Jr.
 White, George Edward
 Wielandy, Frank Landon
 Willius, Daniel Jeremy
 Wilson, Noel Sydney
 Wood, William Augustus
 Woodland, Thomas Jefferson
 Woodside, Richard Livingston
 Woolf, Stephen Richard
 Wyler, Geoffrey David
 Wyman, John Cragin
 Wynne, Winston Wiley, Jr.
 Zaidi, Syed Ahmed Raza
 Zuckerman, Thomas Matlock

Brooklyn, N. Y.
Cliffside Park, N. J.
Flint, Mich.
Flint, Mich.
Merion Station, Pa.
Denver, Colo.
Plainfield, N. J.
Darien, Conn.
Augusta, Kan.
West Hartford, Conn.
Westboro, Mass.
Milford, Mass.
Greenwich, Conn.
Danville, Calif.
Chardon, Ohio
Gambier, Ohio
New York, N. Y.
Rockport, Mass.
Rockport, Mass.
Cohasset, Mass.
Glen Mills, Pa.
Tucson, Ariz.
Sharon, Pa.
Belmont, Mass.
St. Louis, Mo.
Scarsdale, N. Y.
Wayzata, Minn.
Pittsburgh, Pa.
Richmond Heights, Mo.
Roslyn Estates, N. Y.
St. Louis, Mo.
St. Paul, Minn.
Langhorne, Pa.
Washingtonville, N. Y.
Scranton, Pa.
Amherst, Mass.
Brookline, Mass.
Lakewood, N. J.
Amherst, Mass.
Coral Gables, Fla.
Aligarh, India
Stockton, Calif.

SOPHOMORES—Class of 1964

Adams, William Tennant
 Albani, Thomas Joseph
 Alcock, John

Duluth, Minn.
Hartford, Conn.
Buenos Aires, Argentina

Allen, Philip Brown
 Allison, Michael Dennis
 Anguey, David Haughey
 Arbab, Farzam
 Avery, Henry Bryant
 Baker, James Newton
 Barasch, Stephen Harry
 Barth, Richard Allen
 Battocchi, Raymond Donald
 Beacco, John Albert, Jr.
 Beckford, James Palmer
 Belden, Bradford Olcott
 Bell, Cary Edward
 Benedetti, Robert Reed
 Benner, Richard Stanwood, II
 Benson, Gary Scott
 Bicknell, Neil Clement
 Boyce, Benjamin Elisha
 Bradley, Lee Richards
 Bray, Douglas Bruce
 Brill, Jesse Miles
 Brokaw, John Barry
 Bunting, David Gardner
 Burkhardt, Andrew Blaine, Jr.
 Burnett, George Brinton, III
 Burns, David Dean
 Chalfin, Edward Roger
 Chisholm, Arthur Roland, Jr.
 Choi, Cholly
 Cohen, Edwin Carlin
 Collins, Bradford Ray, Jr.
 Cooper, Russell John, III
 Cornelius, Frank Setzer
 Court, John Christian
 Croze, Harvey Jerome
 Crutchfield, John Randolph
 Dardess, George Fleming
 Deem, Clark Wheeler
 Deisroth, Thomas Frederick
 DeLeon, Patrick Henry
 deRisner, George C.
 Devere, Dennis Guild
 Devir, Richard Patrick
 DeWitt, Laurence Barrett
 Donaldson, William Richard
 Donham, James Broadman

Newton Centre, Mass.
South Miami, Fla.
Wellesley Hills, Mass.
Tehran, Iran
Charlemont, Mass.
Coos Bay, Ore.
Freeport, N. Y.
New York, N. Y.
Hartford, Conn.
Stockbridge, Mass.
Westboro, Mass.
Orange, N. J.
Mount Vernon, N. Y.
Palo Alto, Calif.
Marblehead, Mass.
Holbrook, Ariz.
Middlebury, Vt.
New Hampton, N. Y.
Weston, Conn.
Irvington, N. J.
New York, N. Y.
Chevy Chase, Md.
Bryn Mawr, Pa.
Marshfield Hills, Mass.
Walpole, Mass.
Phoenix, Ariz.
Brookline, Mass.
Mohegan, R. I.
Seoul, Korea
Scarsdale, N. Y.
West Springfield, Mass.
Essex Fells, N. J.
Gaithersburg, Md.
Detroit, Mich.
Bloomfield Hills, Mich.
Gladstone, N. J.
Chatham, N. Y.
St. Louis, Mo.
Sugarloaf, Pa.
Waterbury, Conn.
Yonkers, N. Y.
Scarsdale, N. Y.
Verplanck, N. Y.
Farmington, Mich.
Mountain Lakes, N. J.
Upton, Mass.

Downs, Stephen Fosdick
 Drotter, Stephen John, Jr.
 Dubin, Mark William
 Dunn, Michael Winfield
 Easton, Peter Abbott
 Ellen, Stephenson Davis
 Emert, John Paul
 Esterman, Mark Joseph
 Farver, Albert Steele, Jr.
 Feldman, Scott Milton
 Fitzgerald, Richard John, Jr.
 Foster, James Malcolm
 Frank, Robert Edward
 Frankel, Steven Alfred
 Frey, Jonathan
 Freyman, Jay Michael
 Fronk, Michael Paul
 Furtwangler, Albert Joseph
 Garni, Kenneth Fyfe
 Gawthrop, Robert Smith, III
 Gay, Christopher Wells
 Georgopoulos, Constantine P.
 Gerhard, James Gillies
 German, James Clifford, Jr.
 Gibbons, Mark Leigh
 Giles, James Tyrone
 Gormley, Thomas Joseph
 Grant, Lexow Peter
 Greene, Bancroft Farrar
 Groetzinger, Norman James
 Guilbert, Thomas Grattan Parker
 Guthrie, Robert Ward
 Hall, David Arnold
 Hall, Jeffrey Lyman
 Harris, Edward Wesley, II
 Hauschka, Peter Voorhees
 Hawk, Alan Brainard
 Hayden, John Dodds
 Hebbel, Carroll Russell
 Henshaw, Arthur Clement
 Hetsko, Cyril Michael
 Hirschberg, Roger Stanley
 Houston, Alan Fraser
 Hoyt, Creig Simmons
 Hume, Russell James
 Humphreys, Richard Stephen

Bronxville, N. Y.
North Adams, Mass.
Bergenfield, N. J.
North Amherst, Mass.
Glen Ridge, N. J.
Towson, Md.
Chatham, N. J.
Lawrence, N. Y.
Cambridge, Md.
Roslyn Heights, N. Y.
Malvern, Pa.
Carmel, Calif.
Arlington, Va.
Bronxville, N. Y.
Scarsdale, N. Y.
Norristown, Pa.
Minneapolis, Minn.
Seattle, Wash.
Lima, Peru
West Chester, Pa.
Detroit, Mich.
Athens, Greece
Pontiac, Mich.
Jenkintown, Pa.
Middleboro, Mass.
Lynchburg, Va.
Hartford, Conn.
Chicago, Ill.
West Hartford, Conn.
Baltimore, Md.
New York, N. Y.
Encino, Calif.
Cranford, N. J.
New Canaan, Conn.
Indianapolis, Ind.
Amherst, N. Y.
Pittsburgh, Pa.
Grosse Pointe Farms, Mich.
Baltimore, Md.
Hamilton, N. Y.
Ridgewood, N. J.
Rochester, N. Y.
Medford, Mass.
Pittsburgh, Pa.
West Burlington, N. Y.
Hutchinson, Kan.

Jacobs, Thomas Price, Jr.
 Johnson, Stuart MacLean
 Jones, Howard Wilbur, III
 Joslin, Richard Arthur
 Julavits, William Francis
 Keene, John Macauley, III
 Keffer, John Young
 Keith, Cary Lee
 Keith, Philip Myron
 Kennedy, Dean Holt
 Kiss, Stephen Howard
 Klancnik, James Michael
 Klebanow, James Elliot
 Kleinman, Peter Donald
 Knight, Harry William, Jr.
 Knox, Robert Arthur
 Kocsis, James Howard
 Kraai, Frederick Charles
 Krughoff, Robert Merrill
 Kulesza, Kenneth Henry
 Lake, Fredric David, Jr.
 Lambert, Samuel Cary
 Lane, Howard Bishop, Jr.
 Lanning, Ernest Smith, III
 Larson, Alan Everett
 Leavitt, Richard Norman
 Lecky, John Halton
 Leibowitz, Robert Daniel
 Leidich, James Allen
 Levine, Carl Fredric
 Levine, Jack John
 Lewis, Charles Ashby
 Lewis, David Kenneth
 Lewis, William Jackson, II
 Loebel, Tod Richard
 Lombardi, Donald Paul
 Lowy, Douglas Ronald
 Lundwall, Lawrence Kirk
 Lyon, Bret Stephen
 McDougall, Dugald George
 McFarland, John Whitcomb
 McWhorter, Steven Ford
 Mackay, Donald Reid
 Malinowski, Edward Joseph
 Mannal, Richard Knoll
 Manning, Leonard Reuben

Larchmont, N. Y.
 Ladue, Mo.
 Baltimore, Md.
 Fair Lawn, N. J.
 West Hartford, Conn.
 Morristown, N. J.
 Titusville, N. J.
 Brockton, Mass.
 Merion, Pa.
 Glen Head, N. Y.
 Mamaroneck, N. Y.
 Park Ridge, Ill.
 Mount Vernon, N. Y.
 Great Neck, N. Y.
 Darien, Conn.
 Basking Ridge, N. J.
 Harwinton, Conn.
 Fairport, N. Y.
 White Plains, N. Y.
 Hatfield, Mass.
 Evanston, Ill.
 Buffalo, N. Y.
 Keene, N. H.
 Westfield, N. J.
 West Hartford, Conn.
 Manchester, N. H.
 Wilmington, Del.
 Richmond Hill, N. Y.
 Huntingdon Valley, Pa.
 Brooklyn, N. Y.
 Philadelphia, Pa.
 Loudonville, N. Y.
 North Dartmouth, Mass.
 Harlan, Iowa
 Andover, Mass.
 Huntington, N. Y.
 New York, N. Y.
 Gardner, Mass.
 Jamaica, N. Y.
 Wilmette, Ill.
 Burlingame, Calif.
 Omaha, Neb.
 Pittsburgh, Pa.
 Hatfield, Mass.
 Strafford, Pa.
 North Franklin, Conn.

Manuelian, Peter Martin
 Mason, Appleton Adams, III
 Meharg, John George, Jr.
 Meisner, Mitchell Ralph
 Miller, Joel Morton
 Miller, Samuel Detwiler, III
 Mills, Roger Marion, Jr.
 Miner, James Selden, II
 Mintz, Jerome
 Mitchell, Stephen Mark
 Moon, Frederick Franklin, III
 Moran, Joseph John
 Morenus, George Mason
 Morgenroth, Eric Lee
 Morrison, William Robert
 Moss, Ralph Walter
 Muller, Richard Loveless
 Nadel, William Roberts
 Nahl, Michael Connor
 Nelson, Theodore Coburn, Jr.
 Newell, Norman David
 Newsom, Michael deHaven
 North, John Arthur
 Northrop, Jere
 Nwaogugu, Aloysius C.
 Offner, Paul Philip Nathaniel
 Olinger, Gordon Nordell
 Orders, John Malcolm
 Packard, Charles Anthony
 Palmer, Phillips Barry
 Palumbo, Eugene Michael
 Parker, David Lowell
 Patrick, Gerard Rowland
 Pearle, David Lee
 Pellegrin, David Monroe
 Penner, David Albert
 Perkins, John Helm
 Perles, Henry Andrew
 Phillips, Charles Roy
 Pincus, Harry George
 Pite, William James
 Piziak, Robert
 Podell, Richard Neal
 Potter, David Leigh
 Pough, Frederick Harvey, Jr.
 Probst, Robert Edward

New York, N. Y.
Lake Forest, Ill.
Wyomissing, Pa.
Bethesda, Md.
Scranton, Pa.
Norristown, Pa.
Alliance, Ohio
Owosso, Mich.
Park Forest, Ill.
Brooklyn, N. Y.
New York, N. Y.
Hartford, Conn.
Homer, N. Y.
Thonotosassa, Fla.
Jamaica, N. Y.
Brooklyn, N. Y.
Bedford, N. Y.
Irvington, N. J.
Evanston, Ill.
Natick, Mass.
Amherst, Mass.
Chicago, Ill.
Somerville, N. J.
Westfield, N. Y.
Port Harcourt, Nigeria
New Rochelle, N. Y.
West Hartford, Conn.
Montclair, N. J.
Evanston, Ill.
Salzburg, Austria
Ridgewood, N. J.
Egypt, Mass.
Winchester, Mass.
Dallas, Texas
Racine, Wis.
Winchester, Mass.
Colorado Springs, Colo.
New York, N. Y.
Kenilworth, Ill.
New York, N. Y.
East Haven, Conn.
Hadley, Mass.
Malverne, N. Y.
Wilmington, Del.
New York, N. Y.
Baltimore, Md.

Ramey, James North	<i>Bethesda, Md.</i>
Raymond, Stephen Leigh	<i>Pittsburgh, Pa.</i>
Rediker, Stephen Mark	<i>New York, N. Y.</i>
Reichardt, John Joseph	<i>Hartford, Conn.</i>
Reilly, Terence Douglas	<i>Livingston, N. J.</i>
Remington, John Alvah	<i>Rochester, N. Y.</i>
Rice, Willard Gardner, Jr.	<i>Worcester, Mass.</i>
Rich, Stephen Knox	<i>Buffalo, N. Y.</i>
Richards, David Henry	<i>Chappaqua, N. Y.</i>
Richardson, Gordon	<i>Gettysburg, Pa.</i>
Ridley, Dennis Raymond	<i>Portland, Ore.</i>
Romer, Henry Fiske	<i>Canton, N. Y.</i>
Rosenn, Daniel Wohl	<i>Kingston, Pa.</i>
Ross, David Bennet	<i>Oak Park, Ill.</i>
Ross, Richard Rand	<i>Whitestone, N. Y.</i>
Rubinstein, Peter Jay	<i>New York, N. Y.</i>
Ruppe, John Paul	<i>Rutland, Vt.</i>
Sandler, Mark Joseph	<i>West Hartford, Conn.</i>
Santonelli, Robert	<i>Wakefield, Mass.</i>
Sarvis, Richard Smith	<i>Hillsdale, N. J.</i>
Schmerler, Gilbert Richard	<i>Baltimore, Md.</i>
Schneider, Allan Herbert	<i>New York, N. Y.</i>
Schoepfer, Arthur Edward, Jr.	<i>Wellesley Hills, Mass.</i>
Schotté, Richard Theodore	<i>Amherst, Mass.</i>
Scribner, David Edward	<i>Hudson, Ohio</i>
Segal, Terry Philip	<i>West Newton, Mass.</i>
Shaw, Richard Biller	<i>Garden City, L. I., N. Y.</i>
Sheinin, Matthew Gilbert	<i>Brooklyn, N. Y.</i>
Sheldon, Harvey Maynard	<i>Winnetka, Ill.</i>
Shepherd, James Banks, Jr.	<i>Charleston, W. Va.</i>
Sim, Ian Mackenzie	<i>Chapultepec, Mexico</i>
Simmon, Vincent Fowler	<i>Toledo, Ohio</i>
Sletteland, Greggar Perry, Jr.	<i>Glenview, Ill.</i>
Sloss, Charles Stanley	<i>Glenwood Springs, Colo.</i>
Smith, Stephen Eaton	<i>Amherst, Mass.</i>
Sommer, Charles Scudder	<i>St. Louis, Mo.</i>
Sonenstein, Burton	<i>Waterbury, Conn.</i>
Soskis, David Aaron	<i>Brooklyn, N. Y.</i>
Sparks, Richard Edward	<i>Springfield, Mass.</i>
Spielman, Jon Morris	<i>Short Hills, N. J.</i>
Stauffer, Richard Scull, Jr.	<i>York, Pa.</i>
Steffens, James Jeffrey	<i>Devon, Pa.</i>
Stern, Paul Clinton	<i>New York, N. Y.</i>
Stiglitz, Joseph Eugene	<i>Gary, Ind.</i>
Stiles, Frank Garfield, III	<i>Glen Rock, N. J.</i>
Stoudt, Geoffrey Marshall	<i>Reading, Pa.</i>

Stover, Charles Clark, III
 Stringer, David Hall
 Summers, Clarke Carney
 Sunley, Emil McKee, Jr.
 Sussman, George David
 Talbott, John Carlile
 Tannous, David Khalid
 Tendler, Robert Kanof
 Theodossiades, Nicolas P.
 Thompson, Charles William, Jr.
 Tucker, William Gordon, Jr.
 Turgeon, Thomas Snyder
 van den Blink, Leo Martin Seymour
 Vesterman, William Robert
 Wadleigh, Wells Eggleston
 Wanlass, George Ralph
 Wasserstrom, Silas Jonathan
 Weary, William Arthur
 Weaver, Thomas Garrard
 Weissberg, Daniel Leo
 Wesby, Joseph Spencer, III
 White, George Harris
 Whitmore, Chatland Bosler, Jr.
 Williams, Marquis Kenneth
 Wilson, Joseph McCune, III
 Wilson, Robert Merrill
 Winter, Marcus Cole
 Wintersteiner, Peter Prest
 Witholt, Bernard
 Wood, William Archibald, III
 Yager, George Frithiof
 Youmell, Robert Francis
 Ziegler, William Russell
 Ziemba, Ronald Stanley

Colonia, N. J.
Darien, Conn.
Naperville, Ill.
Denver, Colo.
Manhasset, N. Y.
Poland, Ohio
Annandale, Va.
Washington, D. C.
Mytilene, Greece
Chicago, Ill.
Mountain Lakes, N. J.
Amherst, Mass.
Amsterdam, Netherlands
Glen Ridge, N. J.
New London, Conn.
Wyoming, Ohio
Hartsdale, N. Y.
London, England
Larchmont, N. Y.
Elizabeth, N. J.
Worcester, Mass.
Sharon, Mass.
Skaneateles, N. Y.
Medfield, Mass.
Wilmington, Del.
Amherst, Mass.
Chicago, Ill.
New Brunswick, N. J.
Philadelphia, Pa.
Hudson Heights, Quebec, Canada
Cortland, N. Y.
West Springfield, Mass.
Wilton, Conn.
Chicopee Falls, Mass.

FRESHMEN—Class of 1965

Abbot, Frank Kimball, Jr.
 Alcivar, Michael Luis
 Aldrich, Robert Anderson, Jr.
 Ancel, Fredric Davis
 Arnault, Ronald James
 Austin, David Elbert
 Ayers, Charles McKendree
 Bancroft, Peter
 Bancroft, Stephen
 Bartlett, Geoffrey McSwain

Woodbury, Conn.
New York, N. Y.
Seattle, Wash.
Glencoe, Ill.
Hornell, N. Y.
Norton, Mass.
Riverside, Conn.
Waterville, Maine
Waterville, Maine
Weston, Mass.

Bartlett, Michael John
 Bassos, George
 Beach, David Warren
 Bech, Gary Ralph
 Behnke, Michael Clare
 Bendiner, William Paul
 Benkovich, Andrew Zoltan
 Bick, Michael Sagalyn
 Bleckner, Jeffrey Alan
 Bloch, Ralph Howard
 Boe, John
 Boone, William Daniel
 Booth, Stephen Paul
 Bourne, Richard Curtis
 Bragdon, Dale Hurd
 Bretl, John Cameron
 Brown, Stephen Hall
 Buechner, William Robert
 Bump, Benjamin
 Bump, Jerome Francis Anthony
 Bumpus, Peter Kirke
 Bunting, Charles Ingraham
 Burt, David Reed
 Caldwell, Julius Alexander, IV
 Carr, Stephen Wentworth
 Chesson, Douglas Howell
 Clarke, Peter Parlee, II
 Cobb, Benjamin Dyer
 Comfort, Joe Robert
 Cousens, Kenneth Gabriel
 Creed, William Everett
 Damon, Kent
 Daniel, William Warren, Jr.
 Davis, Julian Raymond, Jr.
 Deegan, Daniel John
 Denburg, Jeffrey Lewis
 Denison, David Oldmixon
 DePasqua, Jeffery
 Derge, Jeffery Gesell
 Dermon, Edward Stanley
 Derow, Peter Sidney
 Diver, Colin Stuart
 Dorman, Harry Gaylord, III
 Durkee, Stanley Bradford
 Eastman, Allen Hill
 Eastman, Dwight Reid

Rumson, N. J.
 West Hartford, Conn.
 San Diego, Calif.
 Beaverton, Ore.
 Grand Rapids, Mich.
 Huntington, N. Y.
 Rocky Hill, Conn.
 Springfield, Mass.
 Malverne, N. Y.
 Scarsdale, N. Y.
 Ridgewood, N. J.
 Chevy Chase, Md.
 Pittsfield, Mass.
 Fairfax, Va.
 South Glastonbury, Conn.
 Pewaukee, Wis.
 Amherst, Mass.
 Fairborn, Ohio
 Hampden, Mass.
 St. Paul, Minn.
 Grosse Pointe, Mich.
 Cambridge, Mass.
 Millburn, N. J.
 New Haven, Conn.
 Waltham, Mass.
 Denver, Colo.
 Longmeadow, Mass.
 Newton Centre, Mass.
 Haworth, N. J.
 Highland Park, Ill.
 Peekskill, N. Y.
 Rochester, N. Y.
 New York, N. Y.
 Lanham, Md.
 Tonawanda, N. Y.
 Brooklyn, N. Y.
 Evanston, Ill.
 Needham, Mass.
 Pittsburgh, Pa.
 White Plains, N. Y.
 Newton Centre, Mass.
 Lexington, Mass.
 Worcester, Mass.
 Alexandria, Va.
 Wrentham, Mass.
 Lake Forest, Ill.

Ehrmann, Paul Lawrence
 Eide, Henry Hoy Mons
 Ellenport, Samuel Bernard
 Elliott, William Joseph
 Elowitch, Robert Jason
 Evans, Michael Alan
 Farber, Stephen Edward
 Fernbach, Stephen Alton
 Field, Robert Warren
 Fortney, William Gordon
 Foster, James Robert
 Foster, Wood Robertson, Jr.
 Freeman, Richard Taylor
 Furniss, Carl Thomas, Jr.
 Gallin, John Isaac
 Garnett, Richard Wingfield, III
 Garrison, David Foss
 Gates, Steven Munroe
 Gerber, Richard Borisow
 Giddings, Robert Fisk
 Glickler, Elliot Lawrence
 Goetzl, Robert John
 Gordon, Ronald Michael
 Gorenberg, David
 Gorth, William Phillip
 Green, Marc Edward
 Green, Robert Alan, Jr.
 Greenberg, David Alexander S.
 Greenberg, Kenneth Joseph
 Greene, Howard Edward, Jr.
 Guetti, Michael Charles
 Gutmann, James Trafton
 Hahn, Jonathan Frederick
 Hall, Frederick Leslie
 Hammer, Carl Inger, Jr.
 Hannah, James Edward
 Hardin, Nicholas Jackson
 Harriman, Edward Clements
 Harris, John Rockwell
 Harsanyi, Zsolt Paul
 Harwell, Coleman Alexander, II
 Hazen, James Robert
 Henderson, Lawrence Walter
 Hoffman, Ronald L.
 Horelick, James Michael
 Horn, Jeffrey Alan

Hanover, N. H.
Missoula, Mont.
Union, N. J.
Braintree, Mass.
Portland, Maine
New York, N. Y.
University Heights, Ohio
Hicksville, N. Y.
Chicago, Ill.
Arlington, Va.
New Canaan, Conn.
St. Paul, Minn.
Worcester, Mass.
West Hartford, Conn.
New Rochelle, N. Y.
Charlottesville, Va.
South Lincoln, Mass.
Dunnville, Ontario, Canada
Washington, D. C.
Bennington, Vt.
Laurelton, N. Y.
Amherst, Mass.
Scranton, Pa.
Jersey City, N. J.
Buffalo, N. Y.
Shaker Heights, Ohio
Harrison, N. Y.
Washington, D. C.
South Orange, N. J.
Charlotte, N. C.
Westfield, Mass.
Auburn, Maine
Scarsdale, N. Y.
Glen Rock, N. J.
Duluth, Minn.
Elgin, Ill.
Needham, Mass.
St. Paul, Minn.
Great Neck, N. Y.
Carteret, N. J.
Franklin, Tenn.
Somerville, N. J.
Indianapolis, Ind.
Bronxville, N. Y.
Westport, Conn.
Scarsdale, N. Y.

Horst, Thomas Osborn	<i>Beaver Falls, Pa.</i>
Howe, John Prentice, III	<i>Moscow, Idaho</i>
Ichioka, Victor Masaru	<i>Berkeley, Calif.</i>
Irvine, Andrew William	<i>Mexico City, Mexico</i>
Isgur, Jay August	<i>Northampton, Mass.</i>
Itzkowitz, David Carl	<i>Brooklyn, N. Y.</i>
Jacobi, William Graham	<i>Yonkers, N. Y.</i>
Jacobs, Jerold Lance	<i>Hewlett, N. Y.</i>
Johnson, Mark Lee	<i>Pelham, Mass.</i>
Joys, David Sanderson	<i>Milwaukee, Wis.</i>
Kahn, Edward Paul	<i>Chicago, Ill.</i>
Kamen, Robert Irwin	<i>Laurelton, N. Y.</i>
Kasell, Walter Bert	<i>New York, N. Y.</i>
Kates, William Ward	<i>Elizabeth, N. J.</i>
Katz, Sherman Elliott	<i>Turtle Creek, Pa.</i>
Keebler, John Robert	<i>Sarvar, Pa.</i>
Keith, Brian Duncan	<i>Ridgefield, Conn.</i>
Ketterer, Theodore, III	<i>Pittsburgh, Pa.</i>
Kidder, Rushworth Moulton	<i>Amherst, Mass.</i>
Killingsworth, Robert Blake, Jr.	<i>New Canaan, Conn.</i>
King, John Maurice Reymes	<i>Shelburne Center, Mass.</i>
Kirp, David Lewis	<i>Brightwaters, N. Y.</i>
Kittay, Jeffrey Samuel	<i>Port Chester, N. Y.</i>
Klinge, Dennis Stephen	<i>Tenasly, N. J.</i>
Klivans, Richard James	<i>Youngstown, Ohio</i>
Kniffin, Wayne D., Jr.	<i>Cleveland Heights, Ohio</i>
Kopp, Donald Alvin	<i>Berwyn, Pa.</i>
Lane, Clifford Warren, II	<i>Hingham, Mass.</i>
Lane, Stoddard, III	<i>Los Alamitos, Calif.</i>
Lawrence, Andrew Frank	<i>Mt. Kisco, N. Y.</i>
Leese, David Allen	<i>Hamburg, N. Y.</i>
Levey, Mark	<i>New York, N. Y.</i>
Levy, Paul Allen	<i>South Bend, Ind.</i>
Lewis, Frederick Dunbar	<i>Westport, Conn.</i>
Leyden, Richard Trafton	<i>Briarcliff Manor, N. Y.</i>
Loewer, Barry Monroe	<i>Bayside, N. Y.</i>
Long, Kirk Edward	<i>Orinda, Calif.</i>
Longworth, Robert Whitten	<i>Hicksville, Ohio</i>
Lux, Warren Edward, Jr.	<i>Syosset, N. Y.</i>
Lyle, Edward West	<i>Chevy Chase, Md.</i>
McAnulty, John Haynes	<i>Rochester, N. Y.</i>
McBride, Edwin Graham	<i>Sewickley, Pa.</i>
McCashin, James Patrick, II	<i>Pluckemin, N. J.</i>
McDonald, Angus William, Jr.	<i>Lexington, Ky.</i>
McDougall, Duncan Carl	<i>Wilmette, Ill.</i>
McEwen, Walter Robert, Jr.	<i>Washington, D. C.</i>

MacInnes, David Hudon
 McMullin, Forbes Alexander
 MacNaughton, Donald Thomas
 McNett, Jamie Foster
 Mann, John Douglas
 Markoff, Lewis James
 Mattingly, Michael Fenwick
 Mayer, Paul Julius
 Meek, Peter Hunt
 Menard, Albert Robert, III
 Meredith, Jamison, Jr.
 Merrill, John Warren
 Meyer, Juan Miguel
 Michaels, George Ralph
 Milkey, Robert William
 Miller, Richard William
 Mills, Christopher Avery
 Mitchell, William Charles
 Morton, Alexander Lyall
 Mudge, George Alfred
 Murray, Patrick Judd
 Myers, Lawrence Rutledge
 Nevin, Peter Lang
 Newell, William Henry
 Newton, Earle Williams, III
 Nickles, Peter Aristides
 Northrop, Jon
 Oliver, Harold Weeks, III
 Parker, Geoffrey Sawyer
 Perry, Mark William
 Phillips, Albert Glasgow
 Phillips, Geoffrey Leask
 Phillips, Richard Austin
 Pinney, Peter Raymond
 Pitman, Roger Keith
 Pohl, Michael Alan
 Polgar, Tibor
 Poor, Thomas Martin
 Post, David Anthony
 Potter, Francis Edward, Jr.
 Pradl, Gordon Morrell
 Preston, Samuel Hulse, III
 Proctor, David James M.
 Proulx, Paul Martin
 Ransmeier, John Christian
 Reid, Christopher Breinig

Northampton, Mass.
Weston, Mass.
Chatham Twp., N. J.
Hudson, Ohio
St. Charles, Ill.
New Haven, Conn.
Washington, D. C.
Jamaica, N. Y.
Brookline, Mass.
Boulder, Colo.
Fairmont, W. Va.
South Hampton, N. H.
Caracas, Venezuela
Geneva, N. Y.
Bethesda, Md.
Englewood, N. J.
Farmington, Mich.
Brooklyn, N. Y.
Glen Rock, N. J.
Ruxton, Md.
Seattle, Wash.
Oberlin, Ohio
Bay Shore, N. Y.
Bellows Falls, Vt.
Fairfield, Conn.
Middletown, N. Y.
Westfield, N. Y.
North Caldwell, N. J.
Weston, Mass.
Summit, N. J.
Nashville, Tenn.
Arlington, Va.
Greenfield, Mass.
West Hartford, Conn.
Port Washington, N. Y.
University Heights, Ohio
Bronx, N. Y.
Montclair, N. J.
Alexandria, Va.
Longmeadow, Mass.
Watchung, N. J.
Morrisville, Pa.
Reading, Mass.
Biddeford, Maine
Concord, N. H.
Buffalo, N. Y.

Richter, Dale Allen	<i>Longmeadow, Mass.</i>
Rodger, Wallace Goodwin	<i>Hudson, Mass.</i>
Rohlf, Jeffrey Herbert	<i>Miami, Fla.</i>
Rolf, Jon Erik	<i>Hollywood, Calif.</i>
Roselene, Edward Albert, Jr.	<i>Little Falls, N. J.</i>
Rosenheck, Stephen Druss	<i>New York, N. Y.</i>
Roufa, Donald Jay	<i>Clayton, Mo.</i>
Roush, Thomas Weld	<i>Peninsula, Ohio</i>
Rousseau, John Frederick	<i>Chappaqua, N. Y.</i>
Rubinger, Richard	<i>Larchmont, N. Y.</i>
Ruxin, Paul Theodore	<i>University Heights, Ohio</i>
Salkever, David	<i>New Paltz, N. Y.</i>
Sansing, Johnny White	<i>Memphis, Tenn.</i>
Saphier, Jonathon Donald	<i>Greenwich, Conn.</i>
Savidge, George David	<i>Lambertville, N. J.</i>
Savinar, Tim Michael	<i>Portland, Ore.</i>
Schaschl, Fred Carl	<i>West Hartford, Conn.</i>
Schwartz, Andrew Norman	<i>St. Louis, Mo.</i>
Schwartz, David Alan	<i>Marblehead, Mass.</i>
Scott, Roger Huston	<i>Lansdowne, Pa.</i>
Sellers, John Marshall	<i>Longmeadow, Mass.</i>
Sequin, William Edward, Jr.	<i>Utica, N. Y.</i>
Sherman, Deming Eliot	<i>Providence, R. I.</i>
Shimp, Jerome Spencer	<i>Whitehouse Station, N. J.</i>
Siemens, Roger Albert	<i>Kentfield, Calif.</i>
Simon, Jack William	<i>Deal, N. J.</i>
Sims, Richard Maury, III	<i>Tiburon, Calif.</i>
Skinner, Blake Haleyon	<i>Yonkers, N. Y.</i>
Smith, David Bruce	<i>Canton, Ohio</i>
Smith, Stephen Ensign	<i>Amherst, Mass.</i>
Soper, Davison Eugene	<i>Milwaukee, Wis.</i>
Soule, Arthur Bradley, III	<i>Burlington, Vt.</i>
Spencer, Samuel Burchard	<i>Middlebury, Conn.</i>
Stachenfeld, Avi Joel	<i>Brooklyn, N. Y.</i>
Statler, Stuart Michael	<i>Yonkers, N. Y.</i>
Stein, Gary George	<i>Valley Stream, N. Y.</i>
Stein, Richard Louis	<i>Los Angeles, Calif.</i>
Steinman, Howard Mark	<i>Detroit, Mich.</i>
Strang, Arthur Innis, III	<i>Schenectady, N. Y.</i>
Strimer, Robert Merrill	<i>Delaware, Ohio</i>
Strnad, Ludek Jaroslav	<i>South Portland, Maine</i>
Stuart, Laird James	<i>Short Hills, N. J.</i>
Swerdloff, Peter Michael	<i>New York, N. Y.</i>
Szekely, Peter Ross	<i>Livermore, Calif.</i>
Tate, William Charles	<i>Rochester, N. Y.</i>
Taylor, Brian Brace	<i>Portland, Ore.</i>

Teter, Thomas Showers
 Thorne, John Holden, Jr.
 Tilles, Roy E., III
 Tinney, Douglas Hugh
 Titon, Jeff Todd
 Trees, George Spencer, Jr.
 Tregillus, Craig Porter
 Tripp, Jeffrey Beresin
 Tsuchida, Bruce Torao
 Tuman, Daniel Martin
 Virtue, Kenneth Wayne
 Wahlert, John Howard
 Walker, Donald Albert, Jr.
 Walsh, Birrell Thomas
 Ward, John Patrick, Jr.
 Washburn, Alexander Dillingham
 Waugh, Joseph Martin
 Welch, Oliver William
 Wells, Benjamin Gladney
 Wenk, Arthur Bampton
 Wheeler, Michael Allen
 Williams, John Richard
 Williams, Junius White
 Williams, Robert Lee
 Wilson, John William, III
 Winsby, David George
 Wintroub, Bruce Ulrich
 Wolff, Bruce Stuart
 Woodbury, Ronald Glen
 Yaverbaum, Harvey Joel
 Young, Stephen Randall
 Zeiller, Howard
 Zimmerman, Edward Austin

Bloomington, Ind.
Wollaston, Mass.
Rye, N. Y.
South Braintree, Mass.
Atlanta, Ga.
Hinsdale, Ill.
Yellow Springs, Ohio
Rydal, Pa.
Floral Park, N. Y.
New Orleans, La.
Litchfield, Conn.
Manhasset, N. Y.
Grosse Pointe, Mich.
Del Mar, Calif.
Fayetteville, N. Y.
Greenwich, Conn.
Verona, N. J.
St. Paul, Minn.
St. Louis, Mo.
Mountain Lakes, N. J.
Gloucester, Mass.
Washington, D. C.
Richmond, Va.
Seattle, Wash.
Haddonfield, N. J.
St. Louis, Mo.
Omaha, Neb.
Great Neck, N. Y.
Reading, Mass.
Brooklyn, N. Y.
Shaker Heights, Ohio
Upper Saddle River, N. J.
Algonquin, Ill.

SPECIAL STUDENTS NOT ENROLLED AS CANDIDATES FOR A DEGREE

Barre, Jean-Claude
 Bleisch, Kaspar Kurt Rudolf
 Dumont, Denis Henri F.
 Monin, Yves
 Mossman, Donald Petithory, III

Caen, France
Stuttgart, Germany
Ferri, France
Grenoble, France
Brewster, N. Y.

Summary of Enrollment

Graduate Students	6
Seniors	238
Juniors	247
Sophomores	267
Freshmen	273
Students Not Enrolled as Candidates for a Degree	5
TOTAL	1036

CLASSIFICATION OF UNDERGRADUATES
BY RESIDENCE

New York	256	Nebraska	3
Massachusetts	143	Tennessee	3
New Jersey	88	West Virginia	3
Connecticut	77	Montana	2
Pennsylvania	74	New Mexico	2
Illinois	47	Arkansas	1
Ohio	42	Georgia	1
California	29	Hawaii	1
Maryland	25	Idaho	1
Missouri	22	Louisiana	1
Michigan	20	North Carolina	1
Minnesota	15	Utah	1
District of Columbia	14	Japan	3
Virginia	12	Mexico	3
Colorado	11	Canada	2
Wisconsin	11	Greece	2
Maine	10	Argentina	1
Iowa	9	Austria	1
Vermont	9	England	1
Delaware	8	India	1
New Hampshire	8	Iran	1
Indiana	7	Korea	1
Rhode Island	7	Netherlands	1
Florida	6	Nigeria	1
Oregon	6	Pakistan	1
Texas	5	Peru	1
Washington	5	Switzerland	1
Alabama	4	Uganda	1
Arizona	4	Venezuela	1
Kansas	4		
Kentucky	4		
		TOTAL	1025

V

The Alumni Associations

The Society of the Alumni

(Annual Meeting in Commencement Week)

<i>Honorary President:</i>	WALTER S. ORR, '12 (dec.)
<i>President:</i>	WILLIAM G. AVIRETT, '16 (dec.)
<i>Vice Presidents:</i>	JOHN H. HUBBARD, '07 R. STANLEY WOODWARD, '17 KNOWLTON FERNALD, '22 JAMES W. REICHERT, '27 EMORY R. KYLE, '32
<i>Secretary-Treasurer:</i>	J. ALFRED GUEST, '33
<i>Nominating Committee:</i>	John C. Esty, '22, <i>Chairman</i> HARRISON B. CLAPP, '32 ROBERT E. JOHNSON, '42 PETER H. WINN, '48 JAMES B. LYON, '52
<i>Inspectors of Election:</i>	ROY R. BLAIR, '18, <i>Chairman</i> WILLIAM H. ROSS, '29 H. HILLS SKILLINGS, '38
<i>Committee to Nominate Alumni Trustees:</i>	EDWARD W. EAMES, '22, <i>Chairman</i> ROBERT A. JACOBS, '27 HOWARD O. COLGAN, '32 GORDON L. BECKER, '37 ROBERT K. GREEN, '42

The Alumni Council of Amherst College

<i>Chairman:</i>	WILLIAM G. AVIRETT, '16 <i>ex officio</i> (dec.)
<i>Secretary:</i>	J. ALFRED GUEST, '33
<i>Executive Committee:</i>	EVERETT M. HICKS, '29 <i>Chairman</i> WILLIAM G. AVIRETT, '16, <i>ex officio</i> (dec.) LEONARD K. GUILER, '35 GEORGE T. BRISTOL, '36 GEORGE L. SHINN, '45 EDWARD N. NEY, '46

Representatives of Classes

1884	WALTER F. WILLCOX	1928	STEPHEN BROWN
1888	ALBERT S. BARD	1929	EVERETT M. HICKS
1889	EDWARD FAIRBANK	1930	RICHARD W. LOUD
1892	ALLAN P. BALL	1931	HERBERT J. LYALL
1894	CORNELIUS S. HURLBUT	1932	NORMAN W. TURNER
1899	EVERETT E. THOMPSON	1933	JOHN L. VAN WOERT
1900	OSMOND J. BILLINGS	1934	JOHN W. WHITE
1901	JOSEPH WARNER	1935	ALLEN B. TEMPLE
1902	LOUIS R. HERRICK	1936	GEORGE B. BURNETT, JR.
1903	ARTHUR T. FOSTER	1937	FAIRMAN C. COWAN
1904	ERNEST M. WHITCOMB	1938	RICHMOND M. SUTHERLAND
1905	CLAUDE M. FUESS	1939	CHANNING B. RICHARDSON
1906	GEORGE W. PORTER	1940	GEORGE B. DOWLEY
1907	JOHN M. WALLER	1941	ROBERT G. INGRAHAM
1908	ROBERT H. KENNEDY	1942	JAMES T. KAULL, JR.
1909	H. LADD SMITH	1943	ROBERT C. McADOO
1910	WILLIAM R. KELLOGG	1944	FRANCIS F. FAULKNER
1911	A. HARRY EHRCOOD	1945	DONALD W. McNEISH
1912	HOWARD F. BURNS	1946	ROBERT W. SUCSY
1913	FREDERICK R. HALLER	1947	EDWIN C. VAN VALEY
1914	RICHARD M. KIMBALL	1948	BRUCE K. SKIPTON
1915	STUART F. HEINRITZ	1949	FREDERIC J. GARDNER
1916	DEAN BLANCHARD	1950	DANIEL M. GALBREATH
1917	C. EDGAR MAYNARD	1951	DEAN BLANCHARD, JR.
1918	AUGUSTUS W. BENNET	1952	HOWARD J. BURNETT
1919	WILFRED B. UTTER	1953	STERLING L. WEAVER
1920	HUBERT R. ZELLER	1954	JAMES J. BARNES
1921	EDWARD W. HOOKER	1955	THOMAS A. WILSON
1922	JOHN C. ESTY	1956	H. IRVING GROUSBECK, II
1923	L. THURSTON PENDLETON	1957	DONALD T. NIGHTINGALE
1924	RICHARD S. KYLE	1958	ROBERT E. WEST
1925	ROME A. BETTS	1959	JAMES T. BARTLETT
1926	PHILIP C. RAYE	1960	GORDON HOLMES, JR.
1927	GORDON HOLMES	1961	THEODORE F. ELLS

REPRESENTATIVES OF ALUMNI ASSOCIATIONS

Boston	{ REXFORD A. BRISTOL, '24
	{ F. FOREST DAVIDSON, '20
Buffalo	ARNOLD T. OLENA, '40
Cape Cod	SAMUEL H. COBB, '13
Central New York	DAVIS G. JOHNSON, '41
Chicago	{ JOHN C. DIEFFENDERFER, JR., '49
	{ STUART R. FRENCH, '21
Cincinnati	JAMES G. HEADLEY, '32
The Columbia	ROBERT F. YOUNG, '41
Columbus	ROBERT E. LINDEMANN, '51
Connecticut	ROGER P. MORGAN, '55
Connecticut Valley	JOHN H. HILLS, '31
Florida	DANIEL B. CAUDLE, '36
Indiana	FREDERIC M. HADLEY, '28
Michigan	STEPHEN C. MILLER, '51
New Hampshire	FRANCIS F. FAULKNER, '44
Northeastern New York	BRADFORD F. KIMBALL, '17
Northern California	{ CHARLES T. PLOUGH, '24
	{ DAVID WINSLOW, '38
Northern Ohio	RICHARD S. GRAY, '53
Northwest	JOSEPH R. KINGMAN, III, '49
Philadelphia	HAROLD F. STILL, JR., '44
Phoenix	HARRY C. WILDER, '13
Rhode Island	RANDALL H. YOUNG, '38
Rochester	DAVID N. TUFTS, '40
Rocky Mountain	JOHN J. CONGER, '43
St. Louis	K. MYRON HICKEY, '29
Southern California	ELIAS K. DAVIS, '22
Southern Connecticut	DONALD W. EVERS, '27
Texas (Dallas)	JOHN D. HARRIS, '34
Texas (Houston)	GARRETT R. TUCKER, JR., '36
Washington, D. C.	{ EDWARD C. PHILLIPS, '33
	{ TALCOTT W. SEELYE, '44
Washington State	WILLIAM A. MACCOLL, '32
Westchester	ROBERT J. MCKEAN, JR., '50
Western Pennsylvania	{ RALPH L. HARDING, JR., '42
	{ L. STANTON WILLIAMS, '41
Wisconsin	PHILIP W. ORTH, '40

MEMBERS AT LARGE

EVERETT M. HICKS, '29	GEORGE T. BRISTOL, '36
HOWARD K. HALLIGAN, '30	JAMES M. SELBY, '37
ROBERT W. WILSON, '30	JOHN F. GARDE, JR., '38
LEONARD K. GUILER, '35	EUGENE L. REILLY, '45

GEORGE L. SHINN, '45
EDWARD N. NEY, '46

JAMES H. BALMOS, '50
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VI

Appendix

Appendix

Scholarship Funds

The following is a list of the Scholarship Funds of the College, as of June 30, 1959, the income of which is available for Scholarships and other forms of Student Aid.

Frederick S. Allis Scholarship Fund	\$ 4,065.00
Anderson Scholarship	1,870.00
Frank L. Babbott Scholarship	10,000.00
Lydia Richardson Babbott Endowment Fund	50,000.00
Danforth Keyes Bangs Scholarship Fund	4,000.00
Edmund P. Barker and Susan Marvin Barker Scholarship Fund	8,107.06
Seymour Israel Barowsky Scholarship Fund	5,000.00
Ivory H. Bartlett Scholarship Fund	5,000.00
Beecher Scholarship Fund	89,378.20
Albion F. Bemis Scholarship Fund	2,000.00
Borden Scholarship	1,870.00
Dolly Coleman Blake Scholarship Fund	1,000.00
Chandler Matthews Bray Scholarship Fund	19,932.08
William Louis Bray Class of 1858 Scholarship Fund	100.00
Bazil W. Brown, '53	200.00
Alexander H. Bullock Scholarship Fund	1,500.00
George M. Butler Class of 1897 Scholarship Fund	1,000.00
Butts Scholarship Fund	11,321.50
John A. Callahan Scholarship Fund	7,770.00
Joseph Carew Scholarship Fund	1,046.40
George B. Carter '06 Scholarship Fund	2,000.00
Centennial Gift	123,400.00
The Charitable Fund	132,989.18
Mrs. James Leon Chamberlain	1,000.00
Edwin Clapp Scholarship	4,625.00
Est. of Ellen C. Clapp	1,000.00
Jefferson Clark Scholarship Fund	10,000.00
The Lewis F. Clark Scholarship Fund	10,000.00
Class of 1826 Scholarship Fund	500.00
Class of 1831 Scholarship Fund	1,255.00
Scholarship of the Class of 1836	1,250.00
Scholarship Fund of the Class of 1839	1,200.00
Scholarship Fund of the Class of 1844	500.00
Class of 1845 Scholarship Fund	1,000.00
Class of 1846 Scholarship Fund	1,000.00
Class of 1849 Scholarship Fund	1,000.00
Class of 1850 Scholarship Fund	1,230.00
Class of 1852 Scholarship Fund	1,000.00

Class of 1853 Scholarship Fund.....	\$ 1,500.00
Class of 1855 Scholarship Fund.....	1,121.83
Scholarship Fund of the Class of 1856.....	1,000.00
Class of 1857 Scholarship Fund.....	1,500.00
Scholarship Fund of the Class of 1858.....	1,250.09
Class of 1859 Scholarship Fund.....	2,650.00
Class of 1860 Scholarship Fund.....	3,000.00
Class of 1861 Scholarship Fund.....	3,000.00
Class of 1865 Scholarship Fund.....	1,008.31
Class of 1869 Scholarship Fund.....	2,670.76
Scholarship Fund of the Class of 1871.....	2,186.11
Class of 1873 Scholarship Fund.....	5,000.00
Class of 1877 Scholarship Fund.....	2,500.00
Class of 1880 Scholarship Fund.....	3,038.96
Class of 1897 Scholarship.....	4,450.00
Composite Scholarship Fund—Classes of 1829, '35, '38, '66, '67, '70.....	1,262.28
1927 Memorial Fund.....	11,526.00
Class of 1928 25-Year Memorial Fund.....	14,107.00
Class of 1929 25-Year Memorial Fund.....	11,411.00
Class of 1930 25-Year Memorial Fund.....	20,123.00
Class of 1931 25-Year Memorial Fund.....	16,261.00
Class of 1932 25-Year Memorial Fund.....	25,317.36
Class of 1933 25-Year Memorial Fund.....	26,773.17
Class of 1934 25-Year Memorial Fund.....	19,827.31
Class of 1935 25-Year Memorial Fund.....	28,458.92
Class of 1937 25-Year Memorial Fund.....	15,143.54
Class of 1938 25-Year Memorial Fund.....	9,493.79
Class of 1939 25-Year Memorial Fund.....	5,252.63
Class of 1940 25-Year Memorial Fund.....	813.75
E. C. Converse Scholarship Fund.....	50,000.00
George Cook Scholarship Fund.....	1,050.00
William Lyman Cowles Class of 1878 Scholarship Fund..	3,000.00
Miner D. Crary Scholarship Fund.....	12,113.00
Crosby Memorial Scholarship Fund.....	27,000.00
Solomon Frederick Cushman '14 Loan Fund.....	1,000.00
William Cutler and Harriette Gilbert Cutler Memorial Scholarship.....	15,520.00
Day Benevolent Fund.....	5,000.00
John E. Day Scholarship Fund.....	4,000.00
Enos Dickinson Scholarship Fund.....	1,258.33
Sidney and Hannah Dillon Fund.....	5,000.00
The Dodge Fund.....	4,841.38
W. F. Draper Scholarship Fund.....	2,550.00
Charles R. Drew Memorial Scholarship.....	10,166.00
Est. of George H. Duncan '99.....	2,000.00

Lucius R. Eastman Fund.....	\$ 10,000.00
James M. Ellis Fund.....	5,056.11
Robert Houghton Esty Scholarship Fund.....	10,086.48
Addison Alvord Ewing Scholarship Fund.....	9,000.00
Isaac D. Farnsworth Scholarship Fund.....	3,000.00
John Fletcher '07.....	250.00
The Thomas P. Field Scholarship Fund.....	10,000.00
Fiske and Warren Scholarships.....	2,787.44
Daniel M. Galbreath Scholarship Fund.....	10,019.00
Augustine Milton Gay Scholarship Fund.....	5,056.44
Emerson Gaylord Scholarship Fund.....	8,000.00
Henry W. Giese Memorial Scholarship Fund.....	9,447.85
Jubal C. Gleason 1863 Scholarship Fund.....	10,000.00
Henry Hill Goodell Class of 1862 Scholarship Fund.....	2,000.00
Harry P. Greeley Scholarship Fund.....	15,256.06
Greene Scholarship.....	1,000.00
Greenfield Foundation.....	1,500.00
The Henry Gridley Scholarship of the Class of 1862.....	2,060.49
Vernon P. Gilbert Memorial Scholarship Fund.....	467,163.04
Est. William O. Gilbert.....	100,089.02
Thomas Hale Scholarship Fund.....	1,000.00
George A. Hall Scholarship Fund.....	5,000.00
William Hilton Scholarship Fund.....	50,000.00
Hitchcock Scholarship Endowment.....	11,270.00
George Frisbie Hoar Fund.....	1,000.00
Clarissa Dodge Howard Scholarship Fund.....	10,000.00
William R. Howard Scholarship Fund.....	5,000.00
The Hubshman Foundation Scholarship Fund.....	32,600.00
John Montgomery Hunter Scholarship Fund.....	27,918.31
Mary W. Hyde Scholarship Fund.....	1,000.00
Sarah B. Hyde Scholarship Fund.....	1,000.00
Infirmary Aid Fund.....	2,100.00
A. J. Johnson Scholarship Fund of the Class of 1823.....	1,046.40
Victor S. Johnson Student Loan Fund.....	7,545.00
Edward P. Judd Memorial Scholarship Fund.....	15,492.00
Eugene Kimball Scholarship Fund.....	2,000.00
John C. Kimball Scholarship.....	1,000.00
Est. of John H. Klingensfeld.....	5,000.00
Knowles Scholarship Fund.....	3,000.00
Payne P. Larsen, in memory of Frederick B. Richardson..	5,335.83
Andrew D. Lawrie Scholarship Fund.....	102,070.00
Henry Lobdell Scholarship Fund.....	2,000.00
George Long Memorial Scholarship Fund.....	745.00
Ludington Scholarship Fund.....	100,000.00
Charlotte Procknow McClelland Fund.....	500.00
George W. McFadden, Jr. Scholarship Fund.....	5,554.97

Francis J. Marsh Memorial Fund	\$ 5,000.00
Charles Merriam Scholarship	2,415.00
Charles E. Merrill Scholarship Fund	24,000.00
Charles Morton Merrill Fund	100,000.00
J. C. B. Miller Scholarship Fund	1,000.00
Moore Beneficiary Fund	42,123.62
Charles F. Morse Scholarship Fund	225.00
Anson Daniel Morse Memorial Scholarship Fund	2,500.00
C. L. Morse Scholarship Fund	2,000.00
George A. Morse Memorial Scholarship Fund	46,758.51
Harold Ely Morse Memorial Scholarship Fund	2,500.00
J. C. Newton Scholarship Fund	1,230.00
Mabel H. Norton Scholarship Fund	500.00
LaVerne Noyes Foundation	60,630.09
Newton Scholarship Fund	1,000.00
Edward H. Perkins Jr. Scholarship Fund	5,000.00
Persian Scholarship Fund	2,082.85
Asa Clinton Pierce Scholarship Fund	5,000.00
Theodore B. Plimpton Scholarship Fund	12,989.59
George D. Pratt Scholarship Fund	49,462.50
President's Loan Fund	15,000.00
Reed Scholarships	2,500.00
George Milton Reed Scholarship Fund	5,056.11
Emily B. Ripley Scholarship Fund	1,000.00
S. Robinson Scholarship Fund	3,000.00
E. Russell Scholarship Fund	8,000.00
Lowell Russell Scholarship Fund	1,041.94
John E. Sanford Class of 1851 Scholarship Fund	10,000.00
Schroeder Memorial Fund	12,424.00
James S. Seymour Scholarship Fund	5,000.00
Est. Mary Shores	8,000.00
Andrew Baird Simpson Scholarship Fund	5,000.00
Ellis R. Smith Scholarship Fund	500.00
Harry deForest Smith Scholarship Fund	5,316.76
Isaac F. Smith Student Loan Fund	10,747.06
Luther Ely Smith Memorial Fund	12,667.35
Wells Southworth—Class of 1822 Scholarship Fund	1,280.00
Special Endowment Fund No. 2	25,000.00
Charles J. Staples Memorial	25,000.00
Harold Parker Stevens Fund	32,964.17
Caleb Stimson Fund	19,900.00
Stone Educational Fund	25,000.00
Frederic N. Stone Scholarship Fund	4,924.17
Harlan F. Stone Memorial Scholarship Fund	35,000.00
Henry E. Storrs Scholarship Fund	5,000.00
Charles Snow Thayer Scholarship Fund	1,000.00

L. H. Thayer Scholarship Fund	\$ 5,000.00
Est. of Etta B. Thompson	298,394.66
Elizabeth W. McCormick Tucker Scholarship Fund	1,000.00
Bessy Tucker Scholarship Fund	13,344.48
Quincy Tufts Scholarship Fund	2,000.00
Sarah Tuttle Scholarship Fund	1,042.00
W. S. Tyler of the Class of 1830 Fund	1,000.00
George H. Watson Memorial Fund	62,705.79
Edwin P. Wells Scholarship Fund	32,295.43
Whitcomb Scholarship Fund	12,000.00
Donald G. White Jr. Memorial Fund	3,823.00
Herbert Otis White Scholarship Funds	12,000 00
Whitehall Foundation, Inc.	1,000.00
Est. Herbert P. Whitney '98	500.00
Elmer W. Wiggins Fund	121,360.86
Harry Wilbur Scholarship Fund	5,000.00
David Winslow Scholarship Fund	200.00
Henry Lawrence Wilkinson Memorial Fund	5,000.00
The Williams Scholarship Fund	257.80
Worcester Scholarship Fund	5,000.00
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	\$3,216,867.12

Index

Index

- Administration 31
 - Attendance 31
 - Health 32
 - Occupational guidance 33
 - Records and reports 32
 - Rooms and board 32
 - Student discipline 31
 - Terms and vacations 31
 - Admission 27
 - Advancement Placement 28
 - Application for 27
 - Cooperative Engineering program 30
 - Examinations 29
 - From other colleges 29
 - Interview hours 27
 - Regents examinations 29
 - Alumni Associations 187
 - Central and far western 193
 - Eastern and southern 192
 - Foreign 195
 - Alumni Council 189
 - Association representatives 191
 - Class representatives 190
 - Members at large 191
 - American Studies 51
 - Amherst College 18
 - Amherst College Library 16
 - Amherst curriculum 44
 - Amherst, residents of 39
 - Application fee 27
 - Assistants 11
 - Associate 11
 - Astronomy 55
 - Attendance 31
 - Bachelor of Arts 40
 - Beneficiary aid 37
 - Bills, payment of 35
 - Biology 58
 - Board 32
 - Bond Fifteen 136
 - Calendar 4
 - Chemistry 61
 - Classics 64
 - College Board tests 29
 - College calendar 5
 - Committees of the corporation 7
 - Committees of the faculty 13
 - Comprehensive fee 35
 - Contents 3
 - Cooperative Doctor of Philosophy 42
 - Cooperative Engineering Science program 30
 - Corporation of the College 6
 - Course descriptions 51
 - Independent Reading 51
 - American Studies 51
 - Astronomy 55
 - Biology 58
 - Biophysics 60
 - Chemistry 61
 - Classics 64
 - Dramatic Arts 68
 - Economics 70
 - Education 73
 - English 74
 - Fine Arts 78
 - French 81
 - Geology 85
 - German 88
 - Greek 65
 - History 92
 - Humanities 98
 - Italian 99
 - Latin 66
 - Legal Studies 100
 - Mathematics 101
 - Music 103
 - Non-Western Studies 106
 - Philosophy 107
 - Physical Education 111
 - Physics 111
 - Political Sciences 115
 - Psychology 119
 - Public Speaking 122
 - Religion 122
 - Russian 124
 - Science 125
 - Spanish 127
- Curriculum, the Amherst 44
 - Degree fee 36
 - Degrees 40
 - Bachelor of Arts 40
 - Conferred, 1961, 155

- Cooperative Doctor of Philosophy 42
- Honorary 160
- Master of Arts 42
 - With honors 43
- Delta Sigma Rho 136
- Discipline 31
- Dormitory room 32
- Doshisha University, 24
- Dramatic Arts 68
- Economics 70
- Education 73
- English 74
- Enrollment 163
 - Summary of 186
- Expenses 35
- Faculty 9
- Faculty committees 13
- Faculty Statement on Intellectual Responsibility 46
- Fees 35
- Fellows 14
- Fellowships 137
- Financial Aid 37
- Financial Aid Booklet 39
- Fine Arts 78
- Folger Shakespeare Library 22
 - Officers 22
- Four College Courses 45
- Four College Cooperation 21, 45
- French 81
- General information 18
- Geology 85
- German 88
- Greek 65
- Guarantee deposit 36
- Guidance and Placement 33
- Health 32
- Health fee 32, 35
- History 92
- Hitchcock Memorial Room 17
- Honorary degrees 160
- Honors 134
 - Bond Fifteen 136
 - Degree with 43
 - Delta Sigma Rho 136
 - Phi Beta Kappa 134
- Sigma Xi 135
- Humanities 98
- Independent Reading Course 51
- Instruction, courses of 51
- Intercollegiate athletics fee 35
- Italian 99
- Kirby Memorial Theatre 16
- Language requirements 41
- Latin 66
- Lectureships 133
- Legal Studies 100
- Loan funds 38, 39
- Mabel Loomis Todd Forest 17
- Master of Arts 42
- Mathematics 101
- Medal for Eminent Service 160
- Medical care 32
- Mead Art Building 16
- Merrill Center for Economics 23
- Music 103
- Occupational guidance 33
- Officers of administration 8
- Payment of bills 35
- Phi Beta Kappa 134
- Philosophy 107
- Physical Education 111
- Physics 111
- Political Science 115
- Pratt Geology Museum 16
- Presidents of Amherst 21
- Prizes and awards 143
 - American Studies 143
 - Art 143
 - Astronomy 148
 - Biology 143
 - Chemistry 143
 - Citizenship 151
 - Dramatics 144
 - Economics 144
 - English 145
 - Fine Arts 146
 - Geology 143
 - Greek 146

- Journalism 150
- Latin 147
- Mathematics 148
- Medicine 143
- Miscellaneous 153
- Music 149
- Philosophy 149
- Physical Education 149
- Physics 148
- Political Science 149
- Public Speaking 149
- Religion 149
- Scholarship 151
- Psychology 119
- Public Speaking 122
- Records and reports 32
- Regents examinations 29
- Religion 122
- Religious Advisors 17
- Requirements for degrees 40
- Residents of Amherst 39
- Rooms 32
- Russian 124
- Scholarships 37
- Scholarship funds 199
- Scholarship prizes 151
- Science 125
- Sigma Xi 135
- Snell Museum of Physics 17
- Society of the Alumni 189
- Spanish 127
- Student activities tax 36
- Student discipline 31
- Student Health 32
- Student loan funds 39
- Summary of enrollment 186
- Summary of expenses 36
- Terms and vacations 31
- Transfer students 29
- Trustees 6
- Tuition and fees 35
 - Residents of Amherst 39
- Vacations 5, 31
- Wildlife Sanctuary 17

